
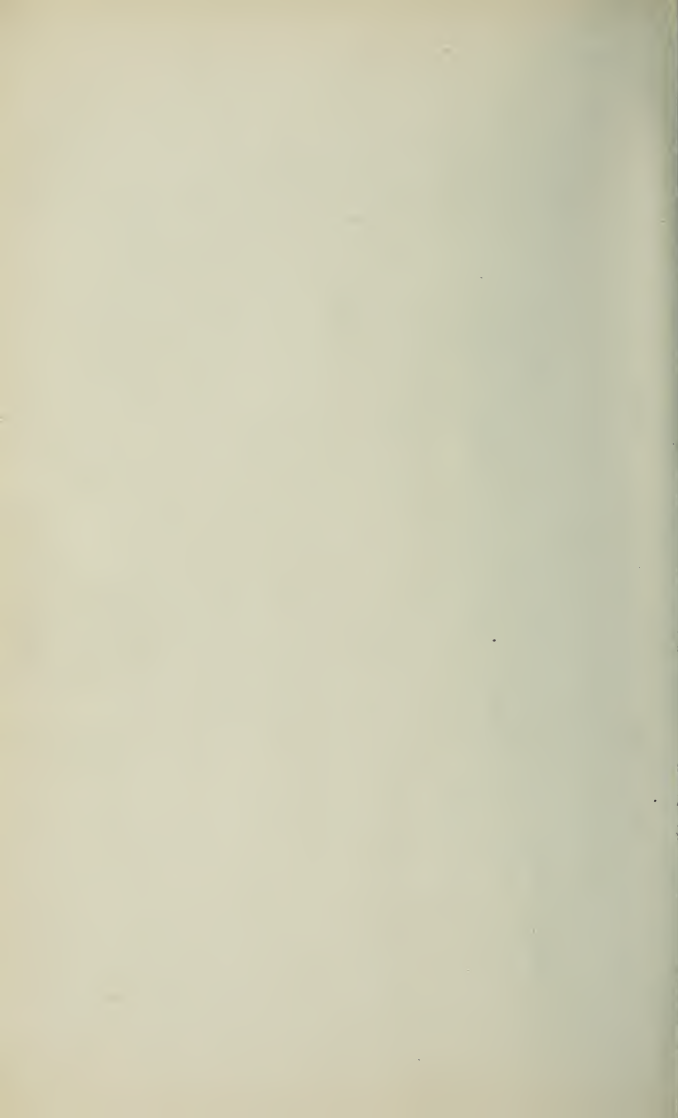


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PERMANENT FILE OF
COUNCIL ON
MEDICAL EDUCATION

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SIXTH SERIES

JANUARY, 1907

NO. 3

CATALOGUE

1906-1907.

PERMANENT FILE OF
COUNCIL ON
MEDICAL EDUCATION

Published Quarterly by the Bucknell University,
Lewisburg, Pennsylvania.

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THE
FIFTY-SEVENTH CATALOGUE
OF THE
OFFICERS AND STUDENTS
OF
Bucknell University:
COLLEGE OF LIBERAL ARTS.

FOR THE YEAR 1906-1907.

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DEPARTMENTS.

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The Academy for Young Men.....	135 to 160
The Institute for Young Women.....	161 to 194
The School of Music for Both Sexes.....	195 to 207

SUMMARY OF ATTENDANCE.

The College of Liberal Arts	514
The Academy for Young Men.....	97
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The School of Music for Both Sexes	107
Total (deducting names repeated)	729

CALENDAR.

The Spring Term Begins.....	Tuesday, April 2, 1907
Annual Commencement.....	Wednesday, June 19, 1907
The Fall Term Begins....	Thursday, September 19, 1907
The Winter Term Begins....	Thursday, January 2, 1908

PLAN AND PURPOSE OF THE UNIVERSITY.

CORPORATE RIGHTS.

The University was incorporated with full University privileges by the Legislature of Pennsylvania, in an Act approved by the Governor on the fifth day of February, 1846. The management of the University is committed to a Board of Trustees, which is self-perpetuating. The trustees are prohibited, for any cause or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the institution. It is required by charter that no religious sentiments are to be counted a disability to hinder the election of an individual to any office among the teachers of the institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

ENDOWMENT.

The total property of the institution exceeds one million dollars. The productive investment amounts to over seven hundred thousand dollars. This money has been the gift of several hundred persons. Among the benefactors of the institution (including only those who have given ten thousand dollars or more and excluding benefactors now living) have been: DAVID JAYNE, M. D., JOHN PRICE CROZER, WILLIAM BUCKNELL.

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THE MILLION DOLLAR MOVEMENT.

The Board of Trustees at its meeting in January, 1903, authorized an effort to increase the endowment by one million dollars. It is expected to obtain this sum by gifts and legacies.

FORMS OF GIFTS.

To persons wishing to give money for the education of the young, the following forms of beneficence are suggested:

(a) Departments can be endowed for \$100,000 and upward.

(b) Professorships can be endowed for \$50,000 each.

(c) Fellowships can be endowed for \$10,000 each.

(d) Scholarships can be endowed by a gift of \$1,000 to \$5,000 each, the income to be given toward the expenses of the student. The income will be estimated from the average income of the funds of the Institution, and is applied only in the year in which it falls due.

(e) A loan fund may be established. The interest from this is loaned to students, the principal being kept intact. In this way a large, active loan-fund accumulates.

Each of these forms of beneficence will bear and perpetuate the name of the donor or of the person designated by him.

FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in their work of preparing young men and young women for usefulness, the following form of bequest is recommended:

I give and bequeath to the Bucknell University, of Lewisburg, Pennsylvania, the sum of Dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.

Or if for a special purpose:

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of Dollars for the establishment of a Department, Professorship, fellowship, scholarship or loan fund, to bear and perpetuate the name of forever.

ORGANIZATION.

The University comprises four schools:

I. THE COLLEGE offers eight Courses of study, each of four years, and each leading to its appropriate degree:

1. The Classical Course.
2. The Philosophical Course.
3. The Course in Jurisprudence.
4. The General Science Course.
5. The Course in Biology.
6. The Course in Chemistry.
7. The Course in Civil Engineering.
8. The Course in Electrical Engineering.

II. THE INSTITUTE for young women has three Courses of study, the Literary, the Classical, and the Scientific, leading to diplomas which admit to the Sophomore year in College.

III. THE ACADEMY is designed to fit young men for College, either for the Classical, Philosophical, Scientific, or Technological Courses.

IV. THE SCHOOL OF MUSIC has full Courses in instrumental and vocal music, and grants diplomas to those who complete any of the specified Courses.

These schools are one corporation, have one President, who has general charge, with a Principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

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HENRY G. WESTON, D. D., LL. D.

HON. SIMON P. WOLVERTON, LL. D.

MR. CHARLES S. WALTON.

*Deceased.

MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement Week, at Lewisburg.

The semi-annual meeting is held on the second Thursday in January, in Philadelphia.

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DAVID PORTER LEAS, A. M.	HENRY G. WESTON, D. D., LL. D.
--------------------------	--------------------------------

AND THE PRESIDENT.

THE UNIVERSITY PROPERTY.

I. THE MAIN COLLEGE.

The main College building is situated on a hill one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The building has a façade of three hundred and twenty feet. The central portion is eighty feet square, and is strengthened in front by four massive columns. On the first floor are six recitation rooms. On the second floor are the halls of the Theta Alpha and Euepia Literary Societies, Reading-room, and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western sides, respectively, of the Main Building, are each one hundred and twenty feet in length and four stories in height, and are used for students' rooms.

Several thousand dollars have been expended recently in improving the College building.

II. THE WEST COLLEGE.

The West College was erected in the year 1900. It is constructed of brick, four stories in height, and contains ninety-seven rooms, one of which is a hall for the use of the Young Men's Christian Association, and the others are designed for the residence of students.

III. THE EAST COLLEGE.

The East College was begun in 1906. It is constructed of brick, four stories in height above the basement. It contains one hundred and twelve rooms for the residence of students.

IV. THE BUCKNELL HALL.

Bucknell Hall is the Chapel of the College. In it all the students of the College meet daily for worship.

V. THE CARNEGIE LIBRARY BUILDING.

The Library building was given by the Honorable Andrew Carnegie, D. C. L., in the year 1905.

The building is sixty-four feet by ninety, built of pressed brick, and trimmed with brownstone. The center, thirty feet by ninety, is used as a reading room. At the height of sixteen feet there is a gallery extending around the room. The sides, each fifteen feet by ninety, are divided on the first floor into rooms for special collections and for offices. The second and third floors will be used for stack rooms. The building will accommodate about 150,000 volumes.

VI. THE OBSERVATORY.

The Observatory was erected in 1887 and enlarged in 1905. It is designed for the use of students in Practical Astronomy.

The equipment represents the latest improvements in astronomical instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and $12\frac{1}{2}$ feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope with prism and grating by Bra-shear; a 3-inch prismatic Transit, with a 13-wire movable Micrometer; a Fauth Chronograph with Bond Spring Gov-

ernor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretical and Practical Astronomy.

VII. THE CHEMICAL LABORATORY.

The Laboratory was erected in 1890, and is a building forty-three feet in width and eight-six feet in length, with two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture-room, with seating for one hundred and twenty-five students, and a large working-room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room and rooms for laboratory work in Organic Science; the basement has rooms for Applied Chemistry, and a fire-proof room.

VIII. THE PHYSICAL LABORATORY.

The Physical Laboratory was erected in 1902. It is a building of two stories, fifty by sixty, constructed of brick trimmed with brownstone. The basement serves for the heating and lighting plant of the institution; the main story, with one room twenty by fifty and another forty by forty-five, accommodates the Department of Physics. A large dark-room was added to the equipment in 1905.

IX. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains an office for the director, rooms for students, lockers, dressing-rooms, and shower baths. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height

of twelve feet a running-track gallery, six feet wide, surrounds the room.

X. THE ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up for out-door sports. In the northwest corner, at the main entrance to the college grounds, a shaded section has been set aside for tennis. The athletic field is sufficiently large for football, baseball, and lacrosse. A running track, a quarter-mile in length, has been constructed on the eastern part of the campus. The Tustin Gymnasium is located at the end of the field, so as to be near to the center of exercise, and easily accessible to the trainers and students.

XI. THE ACADEMY.

1. **The Main Building** of the Academy is situated on "College Hill," and is fifty feet in width by eighty feet in length, and three stories in height. On the first floor is a dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception-room, and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron. The third floor is used for students' rooms, each twenty feet by twelve feet, and fourteen feet high.

2. **The East Hall** of the Academy is the Bucknell Cottage for young men, and is contiguous to the main building and connected with it by a covered passageway. It is of brick, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a general study-room, a recitation-room, teachers' apartments, and rooms for students. The rooms have high ceilings, large double windows with inside shutters, and two commodious closets each.

Both buildings are supplied with hot and cold water, are warmed by steam and lighted by electricity.

XII. BUILDINGS OF THE WOMEN'S COLLEGE.

The buildings and campus of this department are set apart for the use of women taking courses in the College, in the Institute, and in the School of Music.

1. **The Main Building** contains, on the first floor, an office for the Dean and the Registrar, a reception-room, the office of the Director of Music, music-rooms, recitation-rooms, and a dining-hall; on the second floor, a school-room and a parlor; on the third floor, a library-room, teachers' apartments, and students' rooms. The main building was enlarged, 1905, by an addition to the dining-hall.

2. **The South Hall**, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately improved and equipped.

3. **The Bucknell Cottage** stands to the southwest of the Main Building, and is connected with it by an enclosed passageway. It is built of brick, in the Queen Anne style of architecture, and has dimensions of forty feet by one hundred feet. The interior is finished in natural wood, and is equipped, in matters of light, heat, and ventilation, with modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a center parlor, with bed-rooms and closets on either side. In this building is the **Studio**, a spacious room with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

4. **New Cottage** for women, with a front of one hundred and twenty-eight feet and a depth of forty feet, rising

three stories above the basement, was erected in 1905. It contains eighty-seven rooms.

The **Calisthenium** occupies the whole of the upper story, and has a floor surface of over four thousand feet.

All the buildings are supplied with hot and cold water, are warmed by steam, and lighted by electricity.

5. The Campus of the Women's College is separated from the main college grounds, by Loomis Street.

XIII. HEATING AND LIGHTING PLANT.

A central steam heating and electric lighting plant has been erected; all the rooms, public and private, in the several buildings of the institution are warmed and lighted from this plant.

XIV. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University.

THE COLLEGE.

THE FACULTY AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D., PRESIDENT,
AND PROFESSOR OF PSYCHOLOGY AND ETHICS.

*FREEMAN LOOMIS, A. M., PH. D.,
PROFESSOR OF MODERN LANGUAGES AND LITERATURE.

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WILLIAM GUNDY OWENS, A. M.,
PROFESSOR OF CHEMISTRY.

ENOCH PERRINE, A. M., LITT. D.,
PROFESSOR OF THE ENGLISH LANGUAGE AND LITERATURE AND SECRE-
TARY OF THE FACULTY.

*Retired.

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LECTURER ON SURGERY.

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LECTURER ON PRACTICAL ETHICS.

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WILLIAM EMMET MARTIN, A. M.,
LIBRARIAN.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR OF THE UNIVERSITY.

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FRANK EUGENE BURPEE, A. M.,
SUPERINTENDENT OF BUILDINGS AND GROUNDS.

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President, ANDREW A. LEISER, A. M., ESQ., Lewisburg.

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The Alumni Club of Sunbury.

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NAMES OF STUDENTS.

GRADUATE STUDENTS.

NAME.	MAJOR SUBJECT.	RESIDENCE.
COTTIE GUDILA ALBRIGHT, PH. B.,	<i>Pedagogy.</i>	Lewisburg
ESTELLA MAY ALBRIGHT, A. B.,	<i>Education.</i>	Madison, S. D.
ARCHIBALD MERRILL ALLISON, A. B.,	<i>History.</i>	Sioux City, Iowa
CHARLES FAYETTE ARMOUR, PH. B.,	<i>History.</i>	Girard
JEREMIAH STAMEY AUSERMAN, A. B.,	<i>Jurisprudence.</i>	New York City
LYNDON ERNEST AYRES, A. B.,	<i>Language.</i>	Camden, N. J.
EDNA LORINE BACON, A. B.,	<i>Classics.</i>	Dividing Creek, N. J.
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AMOS ETHAN BARTON, A. B.,	<i>Organic Science.</i>	Philadelphia
ELLA BEALE, LITT. B.,	<i>Literature.</i>	Pelham Manor, N. Y.
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EDWARD BELL, JR., A. B.,	<i>Mathematics.</i>	Philadelphia
ELBINA LAVINIA BENDER, A. B.,	<i>Literature.</i>	Lewisburg
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ELBERT LITTLE BLAKESLEE,	<i>Jurisprudence.</i>	Montrose

NAME.	MAJOR SUBJECT.	RESIDENCE.
HARRY SILVERWOOD BOGAR, PH. B.,	<i>Economics.</i>	Halifax
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LINN CLARK DRAKE, A. B.,	<i>Greek.</i>	Chester
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MINNIE GERTRUDE ECKELS, PH. B.,	<i>Literature.</i>	Shippensburg

NAME.	MAJOR SUBJECT.	RESIDENCE.
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WALLACE WILMER FETZER, PH. B., <i>History.</i>		Sunbury
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CARRIE JEANNETTE HALFPENNY, SC. B., <i>Literature.</i>		Mansfield
VELOLA E. HALL, A. B., <i>Language.</i>		Sharon
FREDERICK B. HARDING, A. B., <i>Organic Science.</i>		Milton
JULIUS ROBERT HAYES, PH. B., <i>Science.</i>		Montoursville
DANIEL EDGAR HOTTENSTEIN, PH. B., <i>Organic Science.</i>		Millersburg
CLARA MAUDE HUMMEL, SC. B., <i>Literature.</i>		Rochelle Park, N. J.
ELMER AZIMA HUMMEL, A. B., <i>Language.</i>		Braddock
LAURA MAE HUMMEL, SC. B., <i>Education.</i>		Rochelle Park, N. J.
LEWIS COLUMBUS HYLBERT, A. B., <i>Biblical Literature.</i>		Clarksburg, W. Va.
JOHN THOMAS HYATT, PH. B., <i>Jurisprudence.</i>		Jersey Shore
WALTER JARRETT, SC. B., <i>Jurisprudence.</i>		Sunbury
JOHN C. JOHNSON, SC. B., <i>Organic Science.</i>		Steelton

NAME.	MAJOR SUBJECT.	RESIDENCE.
SARAH ETHEL JUDD, SC. B.,	<i>Literature.</i>	Lewisburg
JAMES LLOYD KALP, PH. B.,	<i>Economics.</i>	Mt. Pleasant
WILLIAM LAWRENCE KALP, A. B.,	<i>Science.</i>	Mt. Pleasant
EDITH HEDGES KELLY, PH. B.,	<i>Language.</i>	Blairsville
ROYAL IVAN KNAPP, A. B.,	<i>Education.</i>	Ridgway
RALPH FREDERICK KOONS, PH. B.,	<i>History.</i>	El Reno, Okla.
EDWARD CHARLES KUNKLE, A. B.,	<i>History.</i>	Scottsdale
MARY EDNA THATCHER KYLE, SC. B.,	<i>Science.</i>	Columbia, S. C.
CURTIS COOK LESHER, SC. B.,	<i>Jurisprudence.</i>	Lewisburg
LENA RUTH LESHER, A. B.,	<i>History.</i>	Northumberland
MARY LILA LONG, A. B.,	<i>English Literature.</i>	Williamsport
IDA EVALINE LUCHSINGER, A. B.,	<i>History.</i>	West Pittston
ROBERT B. MACKEY, PH. B.,	<i>Organic Science.</i>	Waverly
JOSEPH CIPRIANO MACRO, A. B.,	<i>Jurisprudence.</i>	New York City
ELIZABETH BRITON MEEK, A. B.,	<i>Latin.</i>	Allenwood
JOSEPH EDWARD MILLEN, PH. B.,	<i>Literature.</i>	Burgettstown
CARL LYON MILLWARD, PH. B.,	<i>History.</i>	Mt. Pleasant
MARY MONTFORT MOLL, A. B.,	<i>English.</i>	Mahanoy City
EARL AUSTIN MORTON, A. B.,	<i>Economic Science.</i>	Dravosburg
FRANCES LEROY MCCAULEY, A. B.,	<i>New Testament Greek.</i>	Horseheads, N. Y.
ANNA ELIZABETH NOAKER, PH. B.,	<i>German.</i>	Milton

NAME.	MAJOR SUBJECT.	RESIDENCE.
BENJAMIN EARL PHILLIPS, A. B.,	<i>Jurisprudence.</i>	Elizabeth City, N. C.
EDITH LEE PHILLIPS, A. B.,	<i>Classics.</i>	Milton
THOMAS BENJAMIN POWELL, A. B.,	<i>Church History.</i>	Scranton
FRANCES ANNA RACE, A. B.,	<i>Literature.</i>	Scranton
LEE RUSSELL RANCK, PH. B.,	<i>Sociology.</i>	Philadelphia
PHILLIP REILLY, A. B.,	<i>Education.</i>	Pomona, Florida
CHESTER BENJAMIN RENN, A. B.,	<i>History.</i>	South Williamsport
DAVID HOWARD ROBBINS, A. B.,	<i>History.</i>	Phoenixville
FREDERICK W. ROBBINS, PH. B.,	<i>History.</i>	Bethlehem
EDWIN WARREN RUMSEY, A. B.,	<i>Greek.</i>	Chester
JOHN CALVIN SANDERS, A. B.,	<i>Hebrew.</i>	Vicksburg
OLIVE SCHILLINGER, A. B.,	<i>Literature.</i>	Martin's Ferry, Ohio
SILAS HOWARD SCHOCH, A. B.,	<i>Political Science.</i>	Selinsgrove
HELEN AGATHA SELINGER, A. B.,	<i>Science.</i>	Titusville
MORTON ROSCOE SHELDON, PH. B.,	<i>History.</i>	Rapid City, S. D.
ROBERT FRANCIS SHEPPARD, SC. B.,	<i>Jurisprudence.</i>	Cedarville, N. J.
FRANKLIN ISAAC SIGMUND, A. B.,	<i>Education.</i>	Ebensburg
JOHN YEOMAN SINTON, PH. B.,	<i>Organic Science.</i>	Philadelphia
JOHN BEISEL SMILEY, SC. B.,	<i>Civil Engineering.</i>	Steelton
AMANDUS MERKLE SMITH, A. B.,	<i>Mathematics.</i>	Elkhart, Ind.
ARTHUR ANSON SMITH, PH. B.,	<i>Jurisprudence.</i>	Williamsport

NAME.	MAJOR SUBJECT.	RESIDENCE.
CLOYD NILLIS STEININGER, SC. B.,	<i>Jurisprudence.</i>	Lewisburg
ROBERT JOSEPH TERRELL, A. B.,	<i>History.</i>	New York City
CHARLES MILTON TEUFEL, A. B.,	<i>Political Science.</i>	Milton
LEVI JOSEPH ULMER, SC. B.,	<i>Education.</i>	Williamsport
ALVIN MONROE WEAVER, A. B.,	<i>Political Science.</i>	Williamsport
MABELLE ESTELLE WHEELER, PH. B.,	<i>Literature.</i>	Erie
JOHN E. WILLIAMS, SC. B.,	<i>Education.</i>	Olyphant
SAMUEL GARBER WILLIAMS, PH. B.,	<i>Jurisprudence.</i>	Waynesboro
CLIFFORD VERNON WILLIAMSON, PH. B.,	<i>Pedagogy.</i>	Perth Amboy, N. J.
RUTLEDGE THORNTON WILTBANK, PH. B.,	<i>Biblical Literature.</i>	Minneapolis, Minn.
JENNY MAY WOOD, A. B.,	<i>Literature.</i>	Factoryville
JOHN ADAM YOUNG, PH. B.,	<i>Education.</i>	Kane
IRWIN WELLINGTON ZIEGLER, SC. B.,	<i>History.</i>	Linden Hall

Graduate Students, 114.

THE SENIOR CLASS.

CLASS OF 1907.

NAME.	RESIDENCE.	ROOM.
HOMER HASTINGS ADAMS,	No. 31, East Wing <i>Grange.</i>	
PERCY CHESTER ANDREWS,	No. 26, West College <i>New Bethlehem.</i>	
WENDELL MCMINN AUGUST,	St. George Street <i>Brockwayville.</i>	
CHARLES DARCIÉ BAER,	No. 53, West College <i>Connellsville.</i>	
MARSHALL LEON BENN,	No. 62, West College <i>Coudersport.</i>	
CLARENCE ANTHONY BERNHARD,	No. 5, East Wing <i>Hoyt.</i>	
CLARA BLACK,	South Sixth Street <i>Union City.</i>	
FREDERIC RUSSELL BOWER,	South Sixth Street <i>Lewisburg.</i>	
WALTER BURNETTE BRINKER,	No. 31, East Wing <i>Mt. Pleasant.</i>	
CHAUNCEY EUGENE BROCKWAY,	No. 52, West College <i>Sharon.</i>	
ERNEST SABIN BURROWS,	No. 47, West College <i>Picture Rocks.</i>	
LEVI CARL,	No. 40, West College <i>Kerrsville.</i>	
PETER GARFIELD COBER,	No. 13, West Wing <i>Pine Hill.</i>	
WILLIAM FREDERIC ELSSESSER,	No. 10, West Wing <i>Philadelphia.</i>	
GORDON EVANS,	No. 9, West Wing <i>Scranton</i>	
ELLISON MCLEAN FASSETT,	St. George Street <i>Canton.</i>	
ANNA GALBRAITH,	Women's College <i>Williamsport.</i>	
MARY EARLEY GALBRAITH,	Women's College <i>Williamsport.</i>	
MABEL ELIZABETH GLEASON,	Women's College <i>Canton.</i>	

NAME.	RESIDENCE.	ROOM.
CHESTER HAROLD GODSHALL,	<i>Philadelphia.</i>	No. 46, West College
ERNEST MILTON GRESS,	<i>Dublin Mills.</i>	No. 12, West College
HAVARD GRIFFITH,	<i>Norristown.</i>	No. 8, West Wing
CHARLES GRIMMINGER,	<i>Altoona.</i>	No. 9, West Wing
HORACE LEROY HALL,	<i>Sharon.</i>	No. 45, West College
SPENSER TILLINGHAST HARRIS,	<i>Lewisburg.</i>	University Avenue
GEORGE WILLIAM HAWK,	<i>Tower City.</i>	No. 42, West College
F. LUTHER HEINZE,	<i>Ashland.</i>	No. 61, West College
AMMON GROSS HESS,	<i>Manheim.</i>	No. 5, East Wing
WILLIAM DUDLEY HINMAN,	<i>Monroeton.</i>	No. 11, East Wing
COIT ROSCOE HOECHST,	<i>East Berlin.</i>	No. 12, East Wing
THEODORE BLAND HOY,	<i>Montandon.</i>	Montandon
ELKANAH HULLEY,	<i>Chester.</i>	South Fourth Street
WILLIAM CURRIE HULLEY,	<i>Chester.</i>	South Fourth Street
RUTH CUSHMAN JONES,	<i>Mahanoy City.</i>	Women's College
GEORGE WASHINGTON LEACH,	<i>New Bethlehem.</i>	St. George Street
CHARLES AUSTIN LEMMON,	<i>Honeybrook.</i>	No. 31, East Wing
MARGARET WYNONA LESHER,	<i>Northumberland.</i>	South Third Street
THOMAS BEEBER LOCKARD,	<i>Montoursville.</i>	No. 18, West Wing
CLARENCE EDWARD LONG,	<i>Shippensburg.</i>	South Seventh Street
ESAU HERBERT LOOMIS,	<i>Wilmington, Del.</i>	No. 29, East Wing

NAME.	RESIDENCE.	ROOM.
LAWRENCE OSCAR MANLEY,	<i>Canton.</i>	No. 15, West Wing
NORMAN EDWARD MCCALL,	<i>Falls Creek.</i>	No. 14, West Wing
ARTHUR EVRIL MCNINCH,	<i>Lewisburg.</i>	No. 9, West Wing
JOHN LAMBERT MINOR,	<i>Kittanning.</i>	No. 3, East Wing
CALVIN OBERDORF,	<i>Sunbury.</i>	No. 19, East Wing
HELEN MAE OLDS,	<i>Elmhurst.</i>	Market Street
URSULA DAWES PARMLEY,	<i>Mahanoy City.</i>	Women's College
GILBERT SOMERS PEREZ,	<i>Chicago, Ill.</i>	No. 12, East Wing
CHARLES FRANCIS POTTER,	<i>Marlboro, Mass.</i>	No. 16, East Wing
WILLIAM WESLEY RAKER,	<i>Trout Run.</i>	No. 20, West Wing
HARRY DELROY REESE,	<i>Lairdsville.</i>	No. 20, West Wing
GEORGE A. RIGGS,	<i>East McKeesport.</i>	No. 13, West Wing
LEO LAWRENCE ROCKWELL,	<i>Monroeton.</i>	No. 15, East Wing
MARGARET ADELIA ROWLANDS,	<i>Homestead.</i>	Women's College
EDWIN WILDE SAYLOR,	<i>Philadelphia.</i>	No. 40, West College
JACOB HARRY SCHUCH,	<i>Cogan Station.</i>	No. 18, West Wing
THOMAS WAYNE SCHULTZ,	<i>Pennsdale.</i>	South Seventh Street
JAMES HARRY SHOEMAKER,	<i>Clarion.</i>	North Third Street
F. REBECCA SHOVE,	<i>Wellsboro.</i>	Women's College
LILA MABEL SILL,	<i>Bradford.</i>	South Third Street
FRANK SMIGELSKY,	<i>Mt. Carmel.</i>	No. 11, East Wing

NAME.	RESIDENCE.	ROOM.
SYDNEY HOMER SMITH,	<i>Lewisburg.</i>	Academy
HARRY GARFIELD SNAVELY,	<i>Enhaut.</i>	No. 48, West College
MARY GEORGIANA STANTON,	<i>Chinchilla.</i>	South Third Street
WILSON WILLARD STAVER,	<i>Williamsport.</i>	No. 23, West Wing
CHARLES CARROLL WAGNER,	<i>Ottawa.</i>	No. 9, East Wing
JOSEPH NELSON WEDDLE, JR.,	<i>West Newton.</i>	No. 52, West College
MARY SABINE WEDDLE,	<i>West Newton.</i>	Women's College
ALFRED MATTHEWS WHITBY,	<i>Pittsburg.</i>	No. 3, East Wing
EARLE WAYNE WHITNEY,	<i>Wellsboro.</i>	No. 19, West Wing
FRANCES ESTELLE WILLIAMS,	<i>Olyphant.</i>	Women's College
JONATHAN WOLFE,	<i>Lewisburg.</i>	St. George Street
EMMA PORTER YOUNGMAN,	<i>Danville.</i>	Women's College
FRED RUSSEL ZUGSCHWERT,	<i>Carnegie.</i>	No. 66, West College

Seniors, 74.

THE JUNIOR CLASS.

CLASS OF 1908.

NAME.	RESIDENCE.	ROOM.
CARLTON GILFILEN APP,	<i>Lewisburg.</i>	Lewisburg
HARRY FRANCIS BAILEY,	<i>Monongahela.</i>	No. 31, West College
CHARLES BALDWIN,	<i>Jenningsville.</i>	No. 76, West College
VICTOR EMERSON PIOLLETTE BARKMAN,	<i>Clearville.</i>	North Third Street
WALTER HENRY BERTIN,	<i>Du Boistown.</i>	No. 11, West Wing
ELMER KEISER BOLTON,	<i>Holmesburg.</i>	No. 35, West College
WINFIELD SCOTT BOOTH,	<i>Philadelphia.</i>	No. 24, West Wing
DANA MELISSA BOWER,	<i>Elkhart, Ind.</i>	Women's College
JOHN BENJAMIN BOYER,	<i>Mandata.</i>	No. 19, West Wing
BENJAMIN ISAAC BRODY,	<i>Blossburg.</i>	No. 27, West Wing
CHARLES LUCAS BROMLEY,	<i>Reading.</i>	No. 23, East Wing
CHARLES ROCKWELL COLE,	<i>Williamsport.</i>	No. 32, West College
EDWARD CARROLL CONDUCT,	<i>Trenton, N. J.</i>	South Third Street
JOSEPH LEWIS COON,	<i>Bald Mount.</i>	No. 3, West Wing
WALTER MADISON CORLL,	<i>Lewisburg.</i>	South River Road
JOHN WORTH CURE,	<i>Jermyn.</i>	No. 26, East Wing
ROY SIGNOR DAUBERT,	<i>Milton.</i>	Milton
WILLIAM STEWART DUNCAN,	<i>Duncannon.</i>	No. 24, West College
JOHN ROY FARR,	<i>Muncy.</i>	No. 90, West College

NAME.	RESIDENCE.	ROOM.
CHARLES DELANCEY FERGUSON,	<i>Canton.</i>	No. 5, West Wing
HELEN MARR FORREST,	<i>Lewisburg.</i>	North Second Street
HARRY STEPHEN FURST,	<i>Cedar Springs.</i>	No. 91, West College
HARRY CHESTER GARDNER,	<i>McKeesport.</i>	No. 93, West College
GEORGE ARTHUR GEBHARDT,	<i>Jermyn.</i>	St. George Street
JOHN VANDEVERE GIBNEY,	<i>Coatesville.</i>	No. 71, West College
DAVID ALBERT GREEN,	<i>Sciota.</i>	No. 17, East Wing
JAMES ANDREW GROFF,	<i>Lewisburg.</i>	Lewisburg
RALPH WOMELSDORF HALLER,	<i>Reading.</i>	No. 20, East Wing
BENJAMIN THOMAS HARRIS,	<i>Taylor.</i>	No. 51, West College
DAVID JACKSON HAWK,	<i>Tower City.</i>	No. 41, West College
JAMES FULLER HAYES,	<i>Montoursville.</i>	No. 16, West Wing
JOSEPH WELLS HENDERSON,	<i>Montgomery.</i>	No. 36, West College
JAMES HERB,	<i>Mt. Carmel.</i>	No. 54, West College
CHESTER PENN HIGBY,	<i>Philipsburg.</i>	No. 21, East Wing
JENNIE HOPWOOD,	<i>Plymouth.</i>	Women's College
JOHN CLYDE HOSTETTER,	<i>Williamsport.</i>	No. 6, West Wing
JOHN FARL HUMMER,	<i>Titusville.</i>	No. 21, East Wing
EDWARD RICHARDSON INNES,	<i>Canton.</i>	St. George Street
PHILIP MUSSER IREY,	<i>Warren.</i>	No. 59, West College
AELFRIC JAMES,	<i>Berwick.</i>	No. 84, West College

NAME.	RESIDENCE.	ROOM.
MAE ELIZABETH JONES,	<i>Franklin.</i>	Women's College
MARGARET ELLEN KALP,	<i>Mt. Pleasant.</i>	Women's College
GEORGE WASHINGTON KERSCHNER,	<i>Trevorton.</i>	No. 30, West Wing
HORACE BROWN KING,	<i>East Smethport.</i>	No. 69, West College
EDWIN IRLAND LAWSHE,	<i>Lewisburg.</i>	Third Street
JAMES LOSE, JR.,	<i>Williamsport.</i>	No. 34, West College
EDWIN REYNOLDS MANCHESTER,	<i>Scranton.</i>	No. 92, West College
JENNIE MACLAGGAN,	<i>Dallas, Texas.</i>	St. George Street
ROBERT BRUCE MORRIS,	<i>Rebersburg.</i>	No. 32, East Wing
CHARLES AUGUSTUS NICELY,	<i>Watsontown.</i>	Watsontown
CHESTER ARTHUR NIPLE,	<i>Sunbury.</i>	No. 19, East Wing
WALTER LEROY NOLL,	<i>Green Park.</i>	No. 6, West Wing
ELSIE OWENS,	<i>Lewisburg.</i>	South Sixth Street
MARGARET WEDDELL PANGBURN,	<i>Elizabeth.</i>	Women's College
DAVID JESSE PARK,	<i>Montandon.</i>	Montandon
CASIMER EMILE PERRIER,	<i>Northampton, Mass.</i>	No. 8, East Wing
LUTHER ORVILLE PIERSOL,	<i>Honeybrook.</i>	No. 25, East Wing
BEATRICE RAE RICHARDS,	<i>Slatington.</i>	Women's College
OLIVE CROZER RICHARDS,	<i>Slatington.</i>	Women's College
WILLIAM WALLACE RIDGE,	<i>Bloomsburg.</i>	No. 22, East Wing
EDWIN LEROY ROYER,	<i>Rebersburg.</i>	No. 4, West Wing

NAME.	RESIDENCE.	ROOM.
GRACE VIRGINIA ROYER,	<i>Lewisburg.</i>	Lewisburg
BARTON RUNYAN SAVIDGE,	<i>Turbotville.</i>	No. 70, West College
MARION ELLSWORTH SAYRE,	<i>New Brighton.</i>	No. 4, East Wing
EDNA ALICE SEAMAN,	<i>Allentown.</i>	Women's College
HARRY CLAUDE SEILER,	<i>Milton.</i>	Milton
JAMES FRANCIS SHEEHAN,	<i>Patton.</i>	No. 5, West Wing
REUBEN WELTY SHRUM,	<i>Irwin.</i>	No. 65, West College
JOSEPH RIEGEL SHULTZ,	<i>Sunbury.</i>	Sunbury
ROBERT JACOBI SIMINGTON,	<i>Moorestburg.</i>	No. 80, West College
WALLACE JAMES SNYDER,	<i>Elmhurst.</i>	No. 20, East Wing
WILL CARLETON SPROUT,	<i>Picture Rocks.</i>	No. 8, West Wing
ANNA STAGE,	<i>Clearfield.</i>	Women's College
DONALD ALEXANDER STEELE,	<i>Washington.</i>	No. 23, West Wing
ROBERT MCCURDY STEELE,	<i>Brockwayville.</i>	No. 14, West Wing
JOHN RAYMOND STRATTON,	<i>Blossburg.</i>	No. 33, West College
HENRY CLYDE THOMPSON,	<i>Irwin.</i>	No. 16, West Wing
HELEN FULKERSON TIFFANY,	<i>Pleasant Mount.</i>	Women's College
HARRY MORRIS WALTER,	<i>Harrisburg.</i>	No. 37, West College
MERLE B. WHITNEY,	<i>Buffalo, N. Y.</i>	No. 94, West College
JOHN J. WILLIAMS,	<i>Mt. Carmel.</i>	No. 27, West Wing
VIOLETTA WOLFE,	<i>Rebersburg.</i>	Women's College
Juniors, 82.		

THE SOPHOMORE CLASS.

CLASS OF 1909.

NAME.	RESIDENCE.	ROOM.
HENRY SNARE AFRICA,	<i>Huntingdon.</i>	University Avenue
CARLOS ALVAREZ,	<i>Quito, Ecuador.</i>	No. 18, West College
WILLIAM SAMUEL BALDWIN,	<i>Jenningsville.</i>	No. 78, West College
KATHERINE BECKLEY,	<i>Lewisburg.</i>	St. George Street
AMY VANESSA BOLLINGER,	<i>Reynoldsville.</i>	Women's College
HERMAN LONG BRANDT,	<i>Marietta.</i>	No. 72, West College
MINNIE ELIZABETH BROBST,	<i>Sunbury.</i>	Sunbury
JOHN WARD BROWN,	<i>Boswell.</i>	No. 10, West Wing
MARY FRANCES BURGESS,	<i>Danbury, Conn.</i>	Women's College
ALFRED LEE CAREY,	<i>Glen Loch.</i>	No. 25, East Wing
ANNA ROBERTA CAREY,	<i>Glen Loch.</i>	Women's College
ANNE FRANCES CHAFFEE,	<i>Towanda.</i>	Women's College
MYRA MAGARGEE CHAFFEE,	<i>Towanda.</i>	Women's College
ANSLEY BAILEY CLAYPOOLE,	<i>Saltsburg.</i>	No. 89, West College
HELEN DITTING CLIBER,	<i>Holidaysburg.</i>	Women's College
M. ETHEL COCKBURN,	<i>Newberry.</i>	Women's College
EDITH ABBOTT CORLIES,	<i>Philadelphia.</i>	Women's College
BELLE EMILY CRAIG,	<i>Philadelphia.</i>	South First Street
HAZEL MIRIAM CRAIG,	<i>Philadelphia.</i>	South First Street

NAME.	RESIDENCE.	ROOM.
WALTER ERNEST DEATS,	<i>Pittstown, N. J.</i>	No. 43, West College
HERMAN GROVE DIFENDERFER,	<i>Milton.</i>	Milton
JOSEPH EARLE EDWARDS,	<i>Wilmington, Del.</i>	No. 29, East Wing
CHARLES ELSON,	<i>Kane.</i>	No. 13, East Wing
NEWTON CROMWELL FETTER, JR.,	<i>Doylestown.</i>	No. 28, West Wing
HELGE FLORIN,	<i>Johnsonburg.</i>	St. George Street
ALICE ETHEL FOUST,	<i>Milton.</i>	Milton
CLOYD ALEXANDER FREDERICK,	<i>Mifflinburg.</i>	No. 14, East Wing
WALTER SYLVANUS FRICK,	<i>Lewisburg.</i>	North First Street
CHARLES CARPENTER FRIES,	<i>Reading.</i>	No. 23, East Wing
FRANK HERMAN FRITZ,	<i>Bloomsburg.</i>	No. 88, West College
ELLA FLANYGAN GARVIN,	<i>Marshalltown, Iowa.</i>	Women's College
KRANK KEMP GIBSON,	<i>Minersville.</i>	No. 2, West Wing
JOHN WILLIAM GRANDFIELD,	<i>Clarksboro, N. J.</i>	No. 22, East Wing
LILLIAN GREGORY,	<i>Du Bois.</i>	Women's College
JAMES WILBUR GRIER,	<i>Wilkinsburg.</i>	No. 65, West College
EARL GUILFORD GUYER,	<i>Williamsport.</i>	No. 17, West Wing
MATTHEW EMERSON HAGGERTY,	<i>Nawvoo.</i>	No. 77, West College
EUNICE VIRGINIA HALL,	<i>Chinchilla.</i>	Women's College
MILFORD SCOTT HALLMAN,	<i>Mapleshade.</i>	No. 12, West Wing
JOSEPHINE ADELAIDE HANKINS,	<i>Uniontown.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
CLARA ELEANOR HARMAN,	<i>Montoursville.</i>	Women's College
KATHERINE ELIZABETH HEINEN,	<i>Milton.</i>	Milton
JOHN AMMON HESS,	<i>Winfield.</i>	Winfield
CHARLES EDGAR HILBISH,	<i>Northumberland.</i>	Northumberland
CHARLOTTE HULLEY,	<i>Lewisburg.</i>	South Fourth Street
WILLIAM CURRIE HULLEY, JR.,	<i>Lewisburg.</i>	South Fourth Street
DONCASTER GEORGE HUMM,	<i>Punxsutawney.</i>	No. 7, West College
HAROLD L. HUNTER,	<i>Oil City.</i>	No. 73, West College
WALTER SILAS JACOBS, JR.,	<i>Falls Creek.</i>	No. 30, West Wing
WILMER C. JOHNSON,	<i>Downingtown.</i>	No. 68, West College
LEON ELLISON JONES,	<i>Buffalo, N. Y.</i>	No. 23, West Wing
JOHN KASE,	<i>Danville.</i>	No. 9, East Wing
CHARLES WYANT KRAMER,	<i>Oil City.</i>	No. 86, West College
JOHN ANTON LANDSRATH,	<i>Union City.</i>	No. 25, West College
ONESIMUS GEORGE LANGFORD,	<i>Factoryville.</i>	No. 26, East Wing
WILLIAM LEISER, 3D.,	<i>Lewisburg.</i>	North Fourth Street
MARTHA D. LEOPOLD,	<i>Milton.</i>	Milton
CHARLES JOHN LEPPERD,	<i>Duncannon.</i>	Lewisburg
WALTER LEWIS,	<i>Milton.</i>	Milton
CHARLES OSNER LONG,	<i>Sunbury.</i>	Sunbury
WALLACE McLAUGHLIN,	<i>Philadelphia.</i>	No. 32, East Wing

NAME.	RESIDENCE.	ROOM.
CHARLES RICHARD MALLERY,	<i>Juniata.</i>	No. 10, East Wing
JOHN HENRY MATHIAS,	<i>Philadelphia.</i>	No. 9, West Wing
EDNA LILLIAN MEACHAM,	<i>Montandon.</i>	Montandon
HANNAH BEMIS MERVINE,	<i>Milton.</i>	Milton
MARY MATILDA MEYER,	<i>Rebersburg.</i>	Women's College
DAVID WALTER MOORE,	<i>Milton.</i>	Milton
GERTRUDE ADELLA MYERS,	<i>Sixth and St. George Streets Williamsport.</i>	
CHARLES AUGUSTUS NYBERG,	<i>New York City.</i>	St. George Street
CHARLES O'BRIEN,	<i>Nanticoke.</i>	No. 51, West College
BENJAMIN MILES OGDEN,	<i>Clarion.</i>	No. 12, West Wing
FRANK M. OLENDORF,	<i>Athens.</i>	No. 12, East Wing
ALBERT WAFFLE OWENS,	<i>Lewisburg.</i>	South Sixth Street
GUY PAYNE,	<i>Titusville.</i>	No. 16, East Wing
ROY HILL PHILSON,	<i>Berlin.</i>	No. 28, West Wing
ALBERT THEODORE POFFENBERGER, JR.,	<i>Sunbury.</i>	No. 45, West College
WILLIAM HARRY POSTEN,	<i>Navesink, N. J.</i>	No. 27, East Wing
IOLA BEATRICE QUANDT,	<i>Altoona.</i>	Women's College
FRANK WILLIAM REITER,	<i>Atlantic Highlands, N. J.</i>	No. 64, West College
ALLAN GERALD RITTER,	<i>South Williamsport.</i>	No. 77, West College
STANLEY HERBERT ROLFE,	<i>Nanticoke.</i>	No. 56, West College
EVAN DE LA PLANE ROSER,	<i>LeGore, Md.</i>	No. 29, West Wing

NAME.	RESIDENCE.	ROOM.
CHARLES STILWELL ROUSH,	<i>Lewisburg.</i>	Lewisburg
KLEINE HARLAN ROYER,	<i>Rebersburg.</i>	No. 4, West Wing
MABEL GARDINER RUSSELL,	<i>Norristown.</i>	Women's College
PAUL JASPER SANDERS,	<i>Vicksburg.</i>	No. 14, East Wing
PRESTON METTLER SAVIDGE,	<i>Sunbury.</i>	No. 70, West College
PERCY CLYDE SHADE,	<i>Moonesburg.</i>	No. 55, West College
LEONORA MAE SHAMP,	<i>Lewisburg.</i>	St. Catherine Street
E. WHARTON SHORTLIDGE,	<i>Landenburg.</i>	No. 25, East Wing
IDA MABEL SLOUT,	<i>Newberry.</i>	Newberry
HARRY SMITH,	<i>Nanticoke.</i>	No. 4, West College
STANTON REINHART SMITH,	<i>Stroudsburg.</i>	No. 17, East Wing
IRVIN ALLEN TIMLIN,	<i>Clarion.</i>	No. 1, East Wing
MANLEY TOLBERT,	<i>Athens.</i>	No. 75, West College
GERTRUDE LILLIAN TURNER,	<i>Philadelphia.</i>	Women's College
EUGENE VAN WHY,	<i>Stroudsburg.</i>	No. 17, East Wing
MYRTLE HARGRAVE WALKINSHAW,	<i>Greensburg.</i>	Women's College
SARA ELLEN WALTERS,	<i>Lewisburg.</i>	South Third Street
AMELIA MARGARET WENSEL,	<i>Lewisburg.</i>	South Sixth Street
NALA DAMAYANTI WEBB,	<i>Rutherford, N. J.</i>	Women's College
GEORGE NORMAN WILKINSON,	<i>Williamsport.</i>	No. 85, West College
WARREN TYSON WILSON,	<i>Du Bois.</i>	St. George Street

NAME.	RESIDENCE.	ROOM.
RALPH GEORGE WINEGARDNER,	<i>Muncy.</i>	St. George Street
FRANK SHULL WOOLSON,	<i>Fishing Creek, N. J.</i>	No. 30, East Wing
	Sophomores, 105.	

THE FRESHMAN CLASS.

CLASS OF 1910.

NAME.	RESIDENCE.	ROOM.
PAUL JAMES ABRAHAM,	<i>Smithfield.</i>	No. 32, East Wing
ELIZABETH HOPE ADAMS,	<i>Trenton, N. J.</i>	Women's College
MAYME ANDERSON,	<i>Leechburg,</i>	Women's College
MINNIE M. ANDREWS,	<i>North Girard.</i>	Women's College
KATHERINE ETHEL BAILEY,	<i>Wellsboro.</i>	Women's College
JOHN CHARLES BANKS,	<i>Newark, N. J.</i>	No. 11, West Wing
CONRAD LESLIE BASKINS,	<i>North Platte, Neb.</i>	Milton
FLOYD DAYTON BEEMER,	<i>Clark's Summit.</i>	No. 76, West College
PORTER LLOYD BENSON,	<i>Waterford.</i>	No. 32, West Wing
WILHELMINA BODLER,	<i>Germania.</i>	Women's College
EARL HARLAMAN BOWMAN,	<i>Allentown.</i>	No. 23, West College
THOMAS STEWART BRACKEN,	<i>Derry.</i>	No. 11, West College
WALTER E. BROWNE,	<i>Jersey City, N. J.</i>	No. 27, West College
ROBERT HARRIS BUTCHER,	<i>Salem, N. J.</i>	No. 15, West College
CAMERON A. BUTT,	<i>New Midway, Md.</i>	No. 31, West Wing
GEORGE FRANK CASE,	<i>Troy.</i>	No. 21, West Wing
MILDRED BLACKWELL CATHERS,	<i>Flemington, N. J.</i>	Women's College
MAITE SWASEY CATHRALL,	<i>West Pittston.</i>	North Second Street
JANE CHAPMAN,	<i>Pittsburg.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
JAMES FRANCIS CLARKE,	<i>Kane.</i>	No. 9, East Wing
JOSEPH LESLIE CONOVER,	<i>Millville, N. J.</i>	No. 2, East Wing
ELMER J. CROOP,	<i>Nanticoke.</i>	No. 57, West College
ALLAN WILSON DAWSON,	<i>Montoursville.</i>	No. 15, West Wing
WINNIE VIOLA DICKSON,	<i>Akron, Ohio.</i>	Women's College
GEORGE PARSON DRUCKENMILLER,	<i>Sunbury.</i>	Sunbury
FRANK SAUNDERS EAKELEY,	<i>Newark, N. J.</i>	No. 24½, East Wing
ISAAC NEWTON EARLE, JR.,	<i>Barnesboro.</i>	No. 28, East Wing
RAYMOND EASTWOOD,	<i>Burlington, N. J.</i>	No. 6, East Wing
C. PARK EDMUNDS,	<i>Mill Village.</i>	No. 32, West Wing
ALVINA ENGLISH,	<i>Wellsboro.</i>	Women's College
GILBERT HAVEN FAGLEY,	<i>Mt. Carmel.</i>	No. 17, West College
GEORGE CAMPBELL FETTER,	<i>Doylestown.</i>	No. 26, West Wing
ROY AUSTIN FETTERMAN,	<i>Centralia.</i>	No. 28, East Wing
WILLIAM HAYES GATEHOUSE,	<i>Lewisburg.</i>	North Second Street
BERTHA LAYCOCK GEIS,	<i>Belvidere, N. J.</i>	South Third Street
MACARTHUR GORTON,	<i>Smithport.</i>	No. 5, West College
JOHN WESLEY HALLIWELL,	<i>Kane.</i>	No. 29, West College
PRISCILLA RICHARDSON HARDESTY,	<i>Washington, D. C.</i>	Women's College
JESSE CARLL HARRIS,	<i>Salem, N. J.</i>	No. 15, West College
EDWARD STANLEY HARTSHORN,	<i>Perth Amboy, N. J.</i>	No. 4, East Wing

NAME.	RESIDENCE.	ROOM.
LYNFORD JAMES HAYNES,	<i>Waterford.</i>	No. 22, West Wing
HOMER BLAINE HEDGE,	<i>Scenery Hill.</i>	No. 32, East Wing
JOHN CLARENCE HILBISH,	<i>Northumberland.</i>	Northumberland
WILLIAM SMITH HOGSETT,	<i>Uniontown.</i>	No. 7, West College
JAMES ROSCOE HUSTON,	<i>Tioga Centre, N. Y.</i>	No. 30, East Wing
FRANK MURRAY JENNER,	<i>Troy.</i>	No. 11, East Wing
MABEL ELIZABETH JOHNSON,	<i>Mt. Carmel.</i>	Women's College
ROBERT LYNESS JONES,	<i>Franklin.</i>	No. 22, West College
MYRON DONALD KNAPP,	<i>Elkhart, Ind.</i>	No. 67, West College
ARTHUR PAUL KOHLER,	<i>Pitcairn.</i>	No. 83, West College
STANLEY AARON KREBS,	<i>Mahanoy City.</i>	No. 10, West College
HOMER DAVID KRESGE,	<i>Scranton.</i>	No. 24, East Wing
EMILY ANGELINE LANE,	<i>Lane's Mill.</i>	Women's College
FRANK JOSEPH LIDDY,	<i>Renovo.</i>	No. 74, West College
DANIEL EDWARD LEIFER,	<i>New York, N. Y.</i>	No. 8, East Wing
CHARLOTTE CHRISTINE LLOYD,	<i>Olyphant.</i>	Lewisburg
MICHAEL LEONARD MAHER,	<i>Port Allegheny.</i>	No. 13, East Wing
BERTHA MARIE MEINE,	<i>Coudersport.</i>	Women's College
GEORGE STANLEY METZGER,	<i>Montgomery.</i>	Montgomery
ROY MIKLE,	<i>Harrisburg.</i>	No. 21, West Wing
GEORGE FREDERICK MITCH,	<i>Philadelphia.</i>	No. 17, West Wing

NAME.	RESIDENCE.	ROOM.
MICHAEL J. McDONOUGH,	<i>Westmoor.</i>	No. 2, East Wing
SARAH MCFARLAND,	<i>Watsontown.</i>	Watsontown
GEORGE HOWARD NORTHROP,	<i>Monroeton.</i>	No. 15, East Wing
JULIA CARUTHERS ORR,	<i>West Newton.</i>	Women's College
FRANK HALFPENNY PAINTER,	<i>Muncy.</i>	Lewisburg
WEAVER WEDDEL PANGBURN,	<i>Elizabeth.</i>	No. 30, West College
AMY JULIA PARK,	<i>Montandon.</i>	Montandon
RUBY GEORGIA PIERSON,	<i>Clifton Forge, Va.</i>	Women's College
NEWTON RITNER QUINTON,	<i>Ariel.</i>	No. 7, East Wing
PHILIP A. RANDLE,	<i>Philadelphia.</i>	No. 9, West College
SARAH LOWBY RAUP,	<i>Milton.</i>	Milton
SARAH MATILDA RAY,	<i>Pittsburg.</i>	Women's College
ELSIE MAY REEDER,	<i>Montoursville.</i>	Women's College
EDWARD ALONZO RICH,	<i>Du Bois.</i>	No. 8, East Wing
ALMA ALBERTA RINGLER,	<i>Trout Run.</i>	Women's College
HUGH ELLIS ROSER,	<i>LeGore, Md.</i>	No. 29, West Wing
ROBERT JACOB SAYLOR,	<i>Woodsboro, Md.</i>	No. 31, West College
EDWIN DESH SCHEETZ,	<i>Quakertown.</i>	No 32, West Wing
WARREN BURD SCHENCK,	<i>Trenton, N. J.</i>	No. 30, East Wing
ALEXANDER SHEERWOOD,	<i>Waterford.</i>	No. 22, West Wing
CHARLES NORMAN SILMAN,	<i>St. Marys.</i>	No. 49, West College

NAME.	RESIDENCE.	ROOM.
MARY SLAWSON,	<i>Tunkhannock.</i>	Women's College
EUGENE PAUL SMITH,	<i>Bloomsburg.</i>	No. 2, West Wing
WESLEY LEE SPROUT,	<i>Picture Rocks.</i>	No. 8, West Wing
FLORENCE VIRGINIA STAUFFER,	<i>Millville, N. J.</i>	Women's College
HOPE BIEBER STERNER,	<i>Dewart.</i>	Dewart
ALBERT KNOX STOCKEBRAND,	<i>Lititz.</i>	No. 6, East Wing
GEORGE THOENELY STREET, JR.,	<i>North Braddock.</i>	No. 28, West Wing
ELSIE MAE TEED,	<i>Oregon Hill.</i>	Women's College
JAMES STANLEY TOWNSEND,	<i>Longport, N. J.</i>	No. 14, West College
LOUIS JAMES VELTE,	<i>Philadelphia.</i>	No. 29, East Wing
ALFRED ROSS WALTER,	<i>Harrisburg.</i>	No. 38, West College
GRACE ETHEL WATKINS,	<i>Scranton.</i>	Women's College
PALMER MARTIN WAY,	<i>Cape May, N. J.</i>	No. 53, West College
EVA EUNICE WEDDLE,	<i>West Newton.</i>	Women's College
GEORGIA LUCETTA WEDDLE,	<i>West Newton.</i>	Women's College
ARTHUR ANTHONY WERNER,	<i>St. Marys.</i>	No. 50, West College
MAX CONRAD WIAINT,	<i>Connellsville.</i>	South Fourth Street
VIOLA EDNA WILHELM,	<i>Philadelphia.</i>	Women's College
IDA KATHERINE WILLIAMS,	<i>Reynoldsville.</i>	Women's College
STANLEY MORTON WINTER,	<i>Nanticoke.</i>	No. 4, West College
VICTOR H. WINTEROWD,	<i>Indianapolis, Ind.</i>	No. 8, West College

NAME.	RESIDENCE.	ROOM.
ELMER BILLINGFELT WOODS,	<i>Reading</i>	No. 24, East Wing
CORA MAY WRIGHT,	<i>Factoryville.</i>	South Fifth Street
HEBER WILKINSON YOUNGKEN,	<i>Quakertown.</i>	No. 22, East Wing
DANIEL HARVEY ZARTMAN,	<i>Shamokin.</i>	No. 23, East Wing
	Freshmen, 107.	

PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
GEORGE FOSTER BAILETS,	<i>Sunbury.</i>	Sunbury
HARRY BLAIR,	<i>Mifflinburg.</i>	No. 78, West College
EMMA ELISABETH BOUND,	<i>Milton.</i>	Milton
GRACE IRENE DEHART,	<i>Milton.</i>	Milton
LINDLEY H. DENNIS,	<i>Northumberland.</i>	Northumberland
MARGARET DOUGAL,	<i>Milton.</i>	Milton
HARRY CAUM HAINES,	<i>Mt. Ephraim, N. J.</i>	No. 63, West College
HAROLD BURROWS HENDERSON,	<i>Montgomery.</i>	No. 44, West College
DAISY HEGARTY,	<i>Madera.</i>	Women's College
DORA HEGARTY,	<i>Madera.</i>	Women's College
THEODORE KAMENSKY, JR.,	<i>Clearwater, Fla.</i>	Lewisburg
RILEY HARRISON KAUFFMAN,	<i>Shamokin Dam.</i>	Shamokin Dam
GIRTON KELLER LENHART,	<i>Lewisburg.</i>	Lewisburg
VICTOR BALTZER LUCHSINGER,	<i>West Pittston.</i>	No. 95, West College
PAUL BLACK NOFTSKER,	<i>Shippensburg.</i>	Lewisburg
BERTRAM HENRY OLMSTED,	<i>Emporium.</i>	St. George Street
NEAL HEATH PRICE,	<i>Imlaystown, N. J.</i>	No. 81, West College
FLORENCE EMILY REED,	<i>Williamsport.</i>	Williamsport
WALTER ROSWELL ROTHROCK,	<i>Milton.</i>	Milton
WILLIAM SCOTT,	<i>Milton.</i>	Milton

NAME.	RESIDENCE.	ROOM.
PAUL GARFIELD STOLZ,	<i>Philadelphia.</i>	No. 9, West Wing
ANNA KATHARINE SMITH,	<i>Milton.</i>	Milton
HARRY LEE SMITH,	<i>Lewisburg.</i>	Lewisburg
MOLLIE DOUGAL SMITH,	<i>Milton.</i>	Milton
MAUD CAPWELL TIFFANY,	<i>Factoryville.</i>	Factoryville
M. SABINA ULMER,	<i>Cogan Station.</i>	Lewisburg
SUZANNE EMMA WEDDELL,	<i>Morgan Park, Ill.</i>	Women's College
VERA KATHLEEN WEIK,	<i>Milton.</i>	Milton
JAMES A. WALL,	<i>Lewisburg.</i>	South First Street
JUSTIN EVERETT WALTER,	<i>Lewisburg.</i>	Lewisburg
GEORGE EDWARD WEBSTER,	<i>Millersburg.</i>	Millersburg
MELLIE ARMSTRONG WESTCOTT,	<i>Camden, N. J.</i>	Women's College

Pursuing Select Studies, 32.

SUMMARY.

Graduate Students	114
The Senior Class	74
The Junior Class	82
The Sophomore Class	105
The Freshman Class	107
Pursuing Select Studies	32
Total in the College	514

ADMISSION OF STUDENTS.

TO FRESHMAN STANDING.

EXAMINATIONS.

Examinations for admission to the Freshman Class are held on Monday of Commencement week. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each term. In special cases candidates may be examined and admitted at other times in the year.

There must be furnished to the President by the candidate satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismission must be presented.

The required age for admission to the Freshman Class is fifteen years.

I. GENERAL REQUIREMENTS.

Candidates for admission to any of the Courses must pass examinations in the following.

1. ENGLISH.

a. Writing from dictation.

b. English Grammar.

c. Elements of Rhetoric—Invention, Style, and Punctuation.

d. A brief composition upon a subject assigned at the time of the examination. No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

e. Reading.—A certain number of books are set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable

number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of Rhetoric.

In 1904-08: Shakspeare's Merchant of Venice, the Sir Roger De Coverley Papers in the Spectator, Goldsmith's Vicar of Wakefield, Irving's Goldsmith, Coleridge's Ancient Mariner, Scott's Ivanhoe and Lady of the Lake, Carlyle's Essay on Burns, Tennyson's Idylls of the King, Lowell's Vision of Sir Launfal, and George Eliot's Silas Marner.

In 1909: Shakspeare's The Merchant of Venice and Julius Cæsar, Bunyan's The Pilgrim's Progress, Part I, The Sir Roger de Coverley Papers in the Spectator, Scott's The Lady of the Lake and Ivanhoe, Irving's Sketch Book, Macaulay's Lays of Ancient Rome, Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur, George Eliot's Silas Marner.

In 1910: Shakspeare's The Merchant of Venice and Julius Cæsar, The Sir Roger de Coverley Papers in the Spectator, Franklin's Autobiography, Scott's The Lady of the Lake and Ivanhoe, Irving's Sketch Book, Macaulay's Lays of Ancient Rome, Tennyson's Gareth and Lynette, Lancelot and Elaine, and the Passing of Arthur, George Eliot's Silas Marner.

In 1911: Shakspeare's The Merchant of Venice and Julius Cæsar, The Sir Roger de Coverley Papers in the Spectator, Goldsmith's The Vicar of Wakefield, Scott's The Lady of the Lake and Ivanhoe, Irving's Sketch Book, Macaulay's Lays of Ancient Rome, Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur, George Eliot's Silas Marner.

f. Study and Practice. This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination will be:

In 1904-08: Shakspeare's *Macbeth* and *Julius Cæsar*, Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*, Burke's *Speech on Conciliation with America*, and Macaulay's *Essays on Milton*, *Addison*, and *Johnson*.

In 1909, 1910, and 1911: Shakspeare's *Macbeth*, Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*, Burke's *Speech on Conciliation with America*, or *Washington's Farewell Address* and *Webster's First Bunker Hill Oration*.

The candidate is advised to do reading parallel and subsidiary to the books mentioned above; he is recommended to commit to memory as much English poetry as possible, and to pay close attention to the essentials of Grammar.

2. MATHEMATICS.

a. Arithmetic, including the Metric System;

b. Algebra, including Quadratic Equations. The requirements in this study include the treatment of Radicals.

c. Plane Geometry.

3. LATIN.

a. Latin Grammar;

b. Latin Prose Composition;

c. Four books of Cæsar's Commentaries.

4. HISTORY.

a. History of Greece;

b. History of Rome;

c. History of the United States.

5. SCIENCE.

a. Physiology;

b. Physics;

c. Geography—Descriptive and Political, and Physical.

6. FREE-HAND DRAWING.

II. PARTICULAR REQUIREMENTS.

A. To enter the Classical Course, the candidate, in addition to the General Requirements, must pass examinations in the following:

1. GREEK.

- a.* Greek Grammar;
- b.* Greek Prose Composition;
- c.* Greek Reader;
- d.* Four Books of Xenophon's Anabasis;
- e.* Three Books of Homer's Iliad.

2. LATIN.

- a.* Seven Orations of Cicero;
- b.* Six Books of the Æneid;
- c.* Ovid, 1200 lines.

B. To enter the Latin division of the Philosophical Course, or the Course in Jurisprudence, the candidate, in addition to the General Requirements, must pass examination in the following:

1. LATIN.

- a.* Seven Orations of Cicero;
- b.* Six Books of the Æneid;
- c.* Ovid, 1200 lines.

2. Any six units selected from group E.

C. To enter the Greek division of the Philosophical Course, the candidate, in addition to the General Requirements, must pass examination in the following:

1. GREEK.

- a.* Greek Grammar;
- b.* Greek Prose Composition;
- c.* Greek Reader;
- d.* Four Books of Xenophon's Anabasis;
- e.* Three Books of Homer's Iliad.

2. Any six units selected from group E.

D. To enter the General Science Course, the Course in Biology, the Course in Chemistry, or the Course in Civil or in Electrical Engineering, the candidate, in addition to the General Requirements, must pass examination in the following:

1. GERMAN OR FRENCH.

The Grammar of the Language, Composition, and Translation at sight of easy prose (three units).

2. SOLID GEOMETRY.

3. Any eight units selected from group E.

E. Candidates for admission to the Philosophical Course or to the Scientific Course must present in the case of the former, six units, in case of the latter, nine units, and candidates for the Course in Civil or Electrical Engineering, eight units, selected from the following:

English Literature, History of Modern Europe, History of England, Civics; Zoölogy, Physiography, Botany, Geology, Astronomy; Solid Geometry, Chemistry with Laboratory Practice; French (three units); German (three units).

The time requirement for a unit is five hours a week for a term of twelve weeks.

The requirements for admission to the various Courses amount to the work of a High School with a four years' course.

ADMISSION ON CERTIFICATE.

Graduates of Bucknell Institute, in any of the Courses will be admitted to the Sophomore year of the corresponding Course in the College.

Graduates from Bucknell Academy, in any of the Courses, will be admitted to the corresponding Courses in the College upon the Diploma of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the General Science Course without examination.

Certificates of the College Entrance Examination Board are accepted for admission, and also certificates of the State Board for Examination of Candidates for registration as Students of Law, and Regents' certificates of New York State.

Students who have completed a course of study in Preparatory and High Schools of superior standing may be admitted upon the certificate of the Principal of the school from which they come without examination upon the subjects specified in the certificate.

All students received upon certificate are regarded as in conditional standing, and will not be matriculated unless their work during the first ten weeks of the term shows that their preparation has been sufficiently thorough.

SPECIAL STUDENTS.

Students who do not desire to take a full regular course can enter and select special shorter courses with the sanction of the Faculty; but in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the Course from which they intend to select.

ADVANCED STANDING.

I. General Requirements. A proportionate increase of age is required for admission to advanced classes over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

II. Particular Requirements. Candidates for admission to advanced classes are examined both as for admission to Freshman standing and also on the studies that have been pursued by the class which they desire to enter.

MATRICULATION.

Matriculation gives membership in the College and is a condition precedent to all degrees and honors as well as to honorable dismissal. No student is admitted to matriculation until he has shown by his class work during at least ten weeks and by his deportment that he is worthy of membership in the College.

HONORABLE DISMISSION.

No person will be dismissed from the College as in good standing who leaves it while under censure; and papers of dismissal given to those leaving while under a condition shall either be given as of a date anterior to the term during which that condition was incurred, or shall distinctly mention the condition; nor will honorable dismissal be granted to any student

who has not discharged all his pecuniary obligations to the Institution. No papers of dismission or of grades will be granted to a student who has not completed one year of work.

No certificate or statement as to work done in his department is granted by any professor or instructor to an undergraduate.

COURSES OF STUDY.

The Bucknell College offers eight Courses of study leading to degrees in Arts, Philosophy, and Science. Each of the Courses extends through four years. For the Bachelor's degree, thirty-six courses, each of one term five hours a week must be presented, as well as the prescribed work in oral and written Expression, the former of which extends through two years of the course and the latter through four years, and also twelve lecture courses.

I. The Classical Course, leading to the degree of Bachelor of Arts, aims to furnish a liberal education in classical and modern Literature, in the Sciences and Arts. Candidates for the degree of Bachelor of Arts must present at least three courses in German and French.

II. The Philosophical Course, with Latin or Greek in each of its two divisions, aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. Those who have completed the studies of the Course, including not less than four courses of German and French, are admitted to the degree of Bachelor of Philosophy. But a candidate who offers nine College courses in either of the Ancient Classical languages may receive the degree of Bachelor of Arts.

III. The Course in Jurisprudence, leading to the degree of Bachelor of Arts, covers four years of work in Law, Political Science, Economics, Philosophy, Literature, and Mathematics. The Course in Jurisprudence is designed for persons preparing for the legal profession, for a business career, and for participation in public affairs. No one is graduated from this Course if his average standing for the Course is below nine.

IV. The General Science Course, leading to the degree of Bachelor of Science, is substantially the same as the Philosophical Course, with the substitution of additional Modern Language and Scientific Studies for Latin and Greek. Candidates for the degree of Bachelor of Science must present at least one year of German or French for admission and at least four courses of college work in German and French as requisites for graduation.

V. The Course in Biology, leading to the first degree in Biological Science, covers four years of work in Biology, Chemistry, Physics, Mathematics, and Literature. No one is admitted to the first degree in Biological Science if his average standing for the Course is below nine.

VI. The Course in Chemistry, leading to the first degree in Chemical Science, covers four years of work in Chemistry, Physics, Mathematics, Biology, and Literature. No one is admitted to the first degree in Chemical Science if his average standing for the Course is below nine.

The requirements in Modern Language are the same for the Course in Jurisprudence as for the Philosophical Course; and for the Course in Biology and for that in Chemistry they are the same as for the Course in General Science.

VII. The Course in Civil Engineering, leading to the first degree in Civil Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, Technology, and Language. No one is admitted to the first degree in Civil Engineering if his average standing for the Course is below nine.

VIII. The Course in Electrical Engineering, leading to the first degree in Electrical Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, Physics, Electro-technics, and Language. No one will be admitted to the first degree in Electrical Engineering if his average standing for the Course is below nine.

IX. Advanced Courses in Arts, in Science, and in Engineering have been established, leading to the degrees respectively of Master of Arts, Master of Science, Civil Engineer, and Electrical Engineer.

The Master's degree is conferred only on condition that the candidate has completed a Course of Liberal study, approved by the Faculty, sufficient in amount to constitute a fifth year of college work. Particulars may be learned by addressing the President.

CURRICULA.

Roman numerals indicate the number of class-exercises required each week; when there is no designation, five is understood.

I. THE CLASSICAL COURSE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

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| I. TERM—Solid Geometry,
Cicero de Senectute and Livy,
{ Odyssey,
{ Greek Prose Composition, | Rhetoric, I,
Oratory, I. |
| II. TERM—Algebra,
Livy,
{ Lysias' Orations,
{ Greek Testament, | Rhetoric, I,
Oratory, I. |
| III. TERM—Trigonometry,
Velleius and Pliny,
{ Plato's Apology,
{ Greek Testament, | Rhetoric, I,
Oratory, I. |

SOPHOMORE YEAR.

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| I. TERM—Rhetoric,
Horace, | Linear Perspective, I,
Oratory, I. |
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ELECTIVE STUDIES:

<i>German,</i> <i>Greek History,</i> <i>Analytical Geometry.</i>	<i>Chemistry,</i> <i>Surveying,</i>
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| II. TERM—English Literature,
Demosthenes, | Astronomy, I,
Oratory, I. |
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ELECTIVE STUDIES:

<i>Roman History,</i> <i>Latin, 6,</i> <i>German,</i>	<i>Logic,</i> <i>Chemistry,</i> <i>Differential Calculus,</i> <i>Physiology.</i>
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III. TERM—German,

History of Art, I.

ELECTIVE STUDIES:

<i>English Oratory,</i>	<i>Anthropology,</i>
<i>Public Address,</i>	<i>Botany,</i>
<i>Argumentation,</i>	<i>Chemistry,</i>
<i>Juvenal,</i>	<i>Integral Calculus,</i>
<i>American Civics,</i>	<i>Elements of Law,</i>
<i>Economic History.</i>	

JUNIOR YEAR.

I. TERM—Psychology,
French,Greek Literature, I,
Thesis.

ELECTIVE STUDIES:

<i>Æschylus and Sophocles,</i>	<i>Sociology,</i>
<i>Latin, 8,</i>	<i>Physiological Psychology,</i>
<i>English, 6 or 7,</i>	<i>Experimental Physiology,</i>
<i>Practical Oratory,</i>	<i>Biology,</i>
<i>German,</i>	<i>Embryology,</i>
<i>Spanish,</i>	<i>Sanitary Science,</i>
<i>History, 1,</i>	<i>Chemistry,</i>
<i>History, 16,</i>	<i>Higher Analytics,</i>
<i>Economics,</i>	<i>Mechanics,</i>
<i>Real Property,</i>	<i>Geology.</i>

II. TERM—Ethics, IV,
History of Philosophy, I,Geology, I,
Thesis.

ELECTIVE STUDIES:

<i>Euripides,</i>	<i>Advanced Logic,</i>
<i>Latin Poets, 9,</i>	<i>Advanced Composition,</i>
<i>German,</i>	<i>Interpretative Reading,</i>
<i>French,</i>	<i>Comparative Psychology,</i>
<i>Spanish,</i>	<i>Zoölogy of Invertebrates,</i>
<i>English Bible,</i>	<i>Animal Histology,</i>
<i>History, 10,</i>	<i>Human Anatomy,</i>
<i>History, 17,</i>	<i>Chemistry,</i>
<i>Municipal Sociology,</i>	<i>English, 8,</i>
<i>Money and Banking,</i>	<i>Mathematics, 11,</i>
<i>Municipal Government,</i>	<i>Physics,</i>
<i>Personal Property.</i>	

III. TERM—Theism,

History of Education, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek</i> , 8,	<i>Railroad Transportation</i> ,
<i>Latin</i> , 10,	<i>Zoölogy of Vertebrates</i> ,
<i>Journalism</i> ,	<i>Cryptogamic Botany</i> ,
<i>German</i> ,	<i>Bacteriology</i> ,
<i>French</i> ,	<i>Entomology</i> ,
<i>Spanish</i> ,	<i>Neurology</i> ,
<i>English Bible</i> ,	<i>Chemistry</i> ,
<i>Equity</i> ,	<i>Astronomy</i> ,
	<i>Physics</i> .

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek Testament</i> ,	<i>School Administration</i> ,
<i>Latin</i> , 11,	<i>International Law</i> ,
<i>Anglo-Saxon</i> ,	<i>Comparative Anatomy</i> ,
<i>English</i> , 4 or 9,	<i>Chemistry</i> ,
<i>German</i> ,	<i>Geology</i> ,
<i>Medieval History</i> ,	<i>Geodetic Astronomy</i> ,
<i>Advanced Ethics</i> ,	<i>Advanced Mechanics</i> ,
	<i>Contracts</i> .

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Demosthenes de Corona</i> ,	<i>Philosophy of Mind</i> ,
<i>Greek Testament</i> ,	<i>History</i> , 11,
<i>Latin</i> , 12,	<i>History of Europe</i> ,
<i>Roman Life</i> ,	<i>Comparative Politics</i> ,
<i>Chaucer</i> ,	<i>Public Finance</i> ,
<i>French</i> ,	<i>Chemistry</i> ,
<i>Psychology of Education</i> ,	<i>Economic Geology</i> ,
<i>Evidence</i> ,	<i>Advanced Physics</i> .

III. TERM—Literature, I,

Thesis.

ELECTIVE STUDIES:

<i>Plato, Phaedo,</i>	<i>History of Europe, 9,</i>
<i>Greek Testament,</i>	<i>Private Corporations,</i>
<i>Latin, 13,</i>	<i>Constitutional Law,</i>
<i>German,</i>	<i>Roman Law,</i>
<i>Shakspeare,</i>	<i>Partnership,</i>
<i>History of Philosophy,</i>	<i>Chemistry,</i>
<i>Philosophy of Education,</i>	<i>Advanced Physics.</i>

Seniors may take any of the Electives of the Junior Year for corresponding terms.

II. THE PHILOSOPHICAL COURSE.

Leading to the Degree of Bachelor of Philosophy.

A. LATIN DIVISION.

FRESHMAN YEAR.

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| I. TERM—Solid Geometry, | Rhetoric, I, |
| Cicero de Senectute and Livy, Oratory, I. | |
| German, | |
| II. TERM—Algebra, | Rhetoric, I, |
| Livy, | Oratory, I. |
| German, | |
| III. TERM—Trigonometry, | Rhetoric, I, |
| Velleius and Pliny, | Oratory, I. |
| French, | |

SOPHOMORE YEAR.

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| I. TERM—Rhetoric, | Linear Perspective, I, |
| Horace, | Oratory, I. |

ELECTIVE STUDIES:

<i>German,</i>	<i>Chemistry,</i>
<i>Greek History,</i>	<i>Surveying,</i>
<i>Analytical Geometry.</i>	

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| II. TERM—English Literature, | Oratory, I, |
| Astronomy, I. | |

ELECTIVE STUDIES:

<i>Roman History,</i>	<i>Physiology,</i>
<i>Latin, 6,</i>	<i>Chemistry,</i>
<i>German,</i>	<i>Differential Calculus,</i>
<i>French,</i>	<i>Logic.</i>

III. TERM—American Civics, History of Art, I.

ELECTIVE STUDIES:

<i>English Oratory,</i>	<i>Anthropology,</i>
<i>Public Address,</i>	<i>Elementary Law,</i>
<i>Juvenal,</i>	<i>Botany,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>French,</i>	<i>Integral Calculus.</i>

Economic History.

JUNIOR YEAR.

I. TERM—Psychology, Greek Literature, I,
Thesis.

ELECTIVE STUDIES:

<i>Latin, 8,</i>	<i>Sociology,</i>
<i>German,</i>	<i>Economics.</i>
<i>French,</i>	<i>Physiological Psychology,</i>
<i>Spanish,</i>	<i>Experimental Physiology,</i>
<i>English, 6 or 7,</i>	<i>Biology,</i>
<i>Practical Oratory,</i>	<i>Embryology,</i>
<i>History, 1,</i>	<i>Sanitary Science,</i>
<i>History, 16,</i>	<i>Chemistry,</i>
<i>Real Property,</i>	<i>Higher Analytics,</i>

Mechanics.

II. TERM—Ethics, IV, Geology, I,
History of Philosophy, I, Thesis.

ELECTIVE STUDIES:

<i>Latin, 9,</i>	<i>Advanced Logic,</i>
<i>English, 8,</i>	<i>Advanced Composition,</i>
<i>German,</i>	<i>Interpretative Reading,</i>
<i>French,</i>	<i>Comparative Psychology,</i>
<i>Spanish,</i>	<i>Zoölogy of Invertebrates</i>
<i>English Bible,</i>	<i>Animal Histology,</i>
<i>History, 10,</i>	<i>Human Anatomy,</i>
<i>History, 17,</i>	<i>Chemistry,</i>
<i>Money and Banking,</i>	<i>Mathematics, 11,</i>
<i>Municipal Government,</i>	<i>Physics,</i>

Personal Property.

III. TERM—Theism,

History of Education, I,

Thesis.

ELECTIVE STUDIES:

*Greek, 8,
Latin, 10,
Journalism,
German,
French,
Spanish,
English Bible,
Equity,*

*Railroad Transportation,
Cryptogamic Botany,
Zoölogy of Vertebrates,
Entomology,
Bacteriology,
Neurology,
Chemistry,
Astronomy,*

Physics.

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

*Latin, 11,
German,
Anglo-Saxon,
English, 4 or 9,
Medieval History,
Advanced Ethics,
Contracts,*

*School Administration,
International Law,
Comparative Anatomy,
Chemistry,
Geology,
Geodetic Astronomy,
Advanced Mechanics.*

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

*Latin, 12,
Chaucer,
German,
French,
Philosophy of Mind,
History of Europe,
History, 11,*

*Psychology of Education,
Roman Life,
Comparative Politics,
Public Finance,
Chemistry,
Advanced Physics,
Economic Geology,*

Evidence.

III. TERM—Literature, I,

Thesis.

ELECTIVE STUDIES:

<i>Latin, 13,</i>	<i>Philosophy of Education,</i>
<i>German,</i>	<i>Constitutional Law,</i>
<i>Shakspeare,</i>	<i>Roman Law,</i>
<i>History of Philosophy,</i>	<i>Private Corporations,</i>
<i>History of Europe,</i>	<i>Chemistry,</i>
<i>Comparative Politics,</i>	<i>Advanced Physics,</i>
<i>Partnership.</i>	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

THE PHILOSOPHICAL COURSE.

B. GREEK DIVISION.

FRESHMAN YEAR.

I. TERM—Solid Geometry, Odyssey, German,	Rhetoric, I, Oratory, I.
II. TERM—Algebra, { Lysias' Orations, { Greek Testament, German,	Rhetoric, I, Oratory, I.
III. TERM—Trigonometry, { Plato's Apology, { Greek Testament, French,	Rhetoric, I, Oratory, I.

SOPHOMORE YEAR.

I. TERM—Rhetoric, Greek History,	Linear Perspective, I, Oratory, I.
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ELECTIVE STUDIES:

<i>German,</i>	<i>Chemistry,</i>
<i>Analytical Geometry,</i>	<i>Surveying.</i>

II. TERM—English Literature,	Astronomy, I,
Demosthenes,	Oratory, I.

ELECTIVE STUDIES:

<i>German,</i>	<i>Physiology,</i>
<i>French,</i>	<i>Chemistry,</i>
<i>Roman History,</i>	<i>Differential Calculus,</i>
<i>Logic.</i>	

III. TERM—American Civics,	History of Art, I.
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ELECTIVE STUDIES:

<i>English Oratory,</i>	<i>Elements of Law,</i>
<i>Public Address,</i>	<i>Botany,</i>
<i>Argumentation,</i>	<i>Anthropology,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>French,</i>	<i>Integral Calculus,</i>
<i>Economic History.</i>	

JUNIOR YEAR.

I. TERM—Psychology,	Greek Literature, I,
Thesis.	

ELECTIVE STUDIES:

<i>Æschylus and Sophocles,</i>	<i>Sociology,</i>
<i>German,</i>	<i>Economics,</i>
<i>French,</i>	<i>Physiological Psychology,</i>
<i>Spanish,</i>	<i>Experimental Physiology,</i>
<i>English, 6 or 7,</i>	<i>Biology,</i>
<i>Practical Oratory,</i>	<i>Embryology,</i>
<i>History, 1,</i>	<i>Sanitary Science,</i>
<i>History, 16,</i>	<i>Chemistry,</i>
<i>Real Property,</i>	<i>Higher Analytics,</i>
<i>Mechanics.</i>	

II. TERM—Ethics, IV,	Geology, I,
History of Philosophy, I,	Thesis.

ELECTIVE STUDIES:

<i>Euripides,</i>	<i>Advanced Logic,</i>
<i>German,</i>	<i>Advanced Composition,</i>
<i>French,</i>	<i>Interpretative Reading,</i>
<i>Spanish,</i>	<i>Comparative Psychology,</i>
<i>English, 8,</i>	<i>Zoölogy of Invertebrates,</i>
<i>English Bible,</i>	<i>Animal Histology,</i>
<i>History, 10,</i>	<i>Human Anatomy,</i>
<i>History, 17,</i>	<i>Chemistry,</i>
<i>Money and Banking,</i>	<i>Mathematics, 11,</i>
<i>Municipal Government,</i>	<i>Physics,</i>
<i>Municipal Sociology,</i>	<i>Personal Property.</i>

III. TERM—Theism,

History of Education, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek, 8,</i>	<i>Railroad Transportation,</i>
<i>Greek, 13,</i>	<i>Zoölogy of Vertebrates,</i>
<i>Journalism,</i>	<i>Entomology,</i>
<i>German,</i>	<i>Cryptogamic Botany,</i>
<i>French,</i>	<i>Bacteriology,</i>
<i>Spanish,</i>	<i>Neurology,</i>
<i>English Bible,</i>	<i>Chemistry,</i>
<i>Equity,</i>	<i>Astronomy,</i>
	<i>Physics.</i>

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek Testament,</i>	<i>School Administration,</i>
<i>English, 4 or 9,</i>	<i>International Law,</i>
<i>Anglo-Saxon,</i>	<i>Comparative Anatomy,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>Medieval History,</i>	<i>Advanced Mechanics,</i>
<i>Advanced Ethics,</i>	<i>Geology,</i>
<i>Advanced Physics,</i>	<i>Geodetic Astronomy,</i>
	<i>Contracts.</i>

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Demosthenes de Corona,</i>	<i>Psychology of Education,</i>
<i>Greek Testament,</i>	<i>Roman Life,</i>
<i>Chaucer,</i>	<i>Comparative Politics,</i>
<i>French,</i>	<i>Public Finance,</i>
<i>Philosophy of Mind,</i>	<i>Chemistry,</i>
<i>History of Europe, 8,</i>	<i>Advanced Physics,</i>
<i>History, 11,</i>	<i>Economic Geology,</i>
<i>Evidence.</i>	

III. TERM—Literature, I,

Thesis.

ELECTIVE STUDIES:

<i>Plato's Phaedo,</i>	<i>History of Europe, 9,</i>
<i>Greek Testament,</i>	<i>Constitutional Law,</i>
<i>German,</i>	<i>Roman Law,</i>
<i>Shakspeare,</i>	<i>Private Corporations,</i>
<i>History of Philosophy,</i>	<i>Chemistry,</i>
<i>Philosophy of Education,</i>	<i>Advanced Physics,</i>
<i>Partnership.</i>	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

III. THE COURSE IN JURISPRUDENCE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

- I. TERM—Solid Geometry, Rhetoric, 1,
 Cicero de Senectute and Livy, Oratory, I.
 { Odyssey,
 { Greek Prose Composition,
 or German,

- II. TERM—Algebra, Rhetoric, I,
 Livy, Oratory, I.
 { Lysias' Orations,
 { Greek Testament,
 or German,
- III. TERM—Trigonometry, Rhetoric, I,
 Velleius and Pliny, Oratory, I.
 { Plato's Apology,
 { Greek Testament,
 or French,

SOPHOMORE YEAR.

- I. TERM—Rhetoric, Political Science, I,
 Horace, Oratory, I.

ELECTIVE STUDIES:

Greek History, *Surveying,*
History, 16, *Chemistry,*
German.

- II. TERM—English Literature, Political Science, I,
 Logic, Oratory, I.

ELECTIVE STUDIES:

Demosthenes, *History, 17,*
Quintilian, *German,*
Roman History, *French.*

- III. TERM—Elements of Law, Political Science, I.
 American Constitutional Law,

ELECTIVE STUDIES:

Juvenal, *English Oratory,*
German, *Argumentation,*
French, *Public Address,*
Economic History.

JUNIOR YEAR.

- I. TERM—Psychology, Blackstone, I,
 Economics, Thesis.

ELECTIVE STUDIES:

Real Property, Blackstone B. II., Latin, 8,
Constitutional Limitations, Greek Tragedy,
English History, 10 or 11, English Literature,
Sociology, Practical Oratory,
Modern Language.

II. TERM—Ethics, Blackstone, I,
 Money and Banking, Thesis.

ELECTIVE STUDIES:

Personal Property, English Bible,
Municipal Government, Greek,
History, Latin, 9,
Logic, Course 2, English Literature,
Advanced Composition, Modern Language,
Interpretative Reading.

III. TERM—Theism, Blackstone, I,
 Private Corporations, Thesis.

ELECTIVE STUDIES:

Equity, Greek,
English Bible, Latin, 10,
History, Modern Language.

SENIOR YEAR.

I. TERM—International Law, Social Ethics, I,
 Thesis.

ELECTIVE STUDIES:

Contracts, English Literature,
Medieval History, Latin, 11,
Anglo-Saxon, Modern Language.
Advanced Ethics.

II. TERM—Comparative Politics, Political Ethics, I,
 Thesis.

ELECTIVE STUDIES:

Evidence, Demosthenes de Corona,
Public Finance, Latin, 12,
History of Modern Europe, Chaucer,
Philosophy of Mind, Modern Language.

- III. TERM—Roman Law, Literature, I,
Thesis.

ELECTIVE STUDIES:

<i>Partnership,</i>	<i>Shakspere,</i>
<i>Railroad Transportation,</i>	<i>Plato's Phaedo,</i>
<i>Metaphysics,</i>	<i>Latin, 13,</i>
<i>History, 9,</i>	<i>Modern Language,</i>
<i>History of Philosophy.</i>	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

IV. THE GENERAL SCIENCE COURSE.

Leading to the Degree of Bachelor of Science.

FRESHMAN YEAR.

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| I. TERM—Algebra, | Rhetoric, I, |
| Latin, | Oratory, I. |
| German, 2, | |
| II. TERM—Trigonometry, | Rhetoric, I, |
| Latin, | Oratory, I. |
| German, 2, | |
| III. TERM—Analytical Geometry, | Rhetoric, I, |
| Latin, | Oratory, I. |
| French, | |

SOPHOMORE YEAR.

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| I. TERM—Rhetoric, | Linear Perspective, I, |
| | Oratory, I. |

ELECTIVE STUDIES:

<i>Chemistry,</i>	<i>Greek History,</i>
<i>Horace,</i>	<i>Surveying,</i>
<i>German,</i>	<i>French.</i>

II. TERM—English Literature, Astronomy, I,
Oratory, I.

ELECTIVE STUDIES:

<i>German,</i>	<i>Physiology,</i>
<i>French,</i>	<i>Chemistry,</i>
<i>Roman History,</i>	<i>Differential Calculus,</i>
<i>Logic.</i>	

III. TERM—American Civics, History of Art, I.

ELECTIVE STUDIES:

<i>English Oratory,</i>	<i>French,</i>
<i>Public Address,</i>	<i>Elements of Law,</i>
<i>Argumentation,</i>	<i>Anthropology,</i>
<i>Juvenal,</i>	<i>Botany,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>Integral Calculus,</i>	<i>Economic History,</i>

JUNIOR YEAR.

I. TERM—Psychology, Greek Literature, I,
Thesis.

ELECTIVE STUDIES:

<i>English, 6 or 7,</i>	<i>Economics,</i>
<i>Practical Oratory,</i>	<i>Physiological Psychology,</i>
<i>German,</i>	<i>Experimental Physiology,</i>
<i>French,</i>	<i>Zoölogy of Vertebrates,</i>
<i>Spanish,</i>	<i>Embryology,</i>
<i>History, 1,</i>	<i>Sanitary Science,</i>
<i>History, 16,</i>	<i>Chemistry,</i>
<i>Sociology,</i>	<i>Higher Analytics,</i>
<i>Real Property,</i>	<i>Mechanics.</i>

II. TERM—Ethics, IV, Geology, I,
History of Philosophy, I, Thesis.

ELECTIVE STUDIES:

<i>English, 8,</i>	<i>Personal Property,</i>
<i>German,</i>	<i>Advanced Composition,</i>
<i>French,</i>	<i>Interpretative Reading,</i>
<i>Spanish,</i>	<i>Comparative Psychology,</i>
<i>English Bible,</i>	<i>Zoölogy of Vertebrates,</i>
<i>History, 10,</i>	<i>Animal Histology,</i>
<i>History, 17,</i>	<i>Human Anatomy,</i>
<i>Money and Banking,</i>	<i>Chemistry,</i>
<i>Municipal Government,</i>	<i>Mathematics, 11,</i>
<i>Municipal Sociology,</i>	<i>Physics.</i>

III. TERM—Theism,

History of Education, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek, 8,</i>	<i>Cryptogamic Botany,</i>
<i>Journalism,</i>	<i>Biology,</i>
<i>German,</i>	<i>Bacteriology,</i>
<i>French,</i>	<i>Entomology,</i>
<i>Spanish,</i>	<i>Neurology,</i>
<i>English Bible,</i>	<i>Astronomy,</i>
<i>Railroad Transportation,</i>	<i>Physics,</i>
<i>Equity,</i>	<i>Chemistry.</i>

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Anglo-Saxon,</i>	<i>International Law,</i>
<i>English, 4 or 9,</i>	<i>Comparative Anatomy,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>French,</i>	<i>Geology,</i>
<i>Medieval History,</i>	<i>Geodetic Astronomy,</i>
<i>Contracts,</i>	<i>Advanced Physics,</i>

School Administration.

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>German,</i>	<i>Psychology of Education,</i>
<i>French,</i>	<i>Roman Life,</i>
<i>Chaucer,</i>	<i>Comparative Politics,</i>
<i>Philosophy of Mind,</i>	<i>Public Finance,</i>
<i>History of Europe,</i>	<i>Chemistry,</i>
<i>History, 11,</i>	<i>Advanced Physics,</i>
<i>Evidence,</i>	<i>Economic Geology.</i>

III. TERM—Literature, I,

Thesis.

ELECTIVE STUDIES:

<i>German,</i>	<i>Partnership,</i>
<i>French,</i>	<i>Constitutional Law,</i>
<i>Shakspeare,</i>	<i>Roman Law,</i>
<i>History of Philosophy,</i>	<i>Private Corporations,</i>
<i>History of Europe,</i>	<i>Chemistry,</i>
<i>Philosophy of Education,</i>	<i>Advanced Physics.</i>

Seniors may take any of the Electives of the Junior Year for corresponding terms.

V. THE COURSE IN BIOLOGY.

Leading to the First Degree in Biological Science.

FRESHMAN YEAR.

I. TERM—Algebra,	Rhetoric, I,
General Chemistry,	Oratory, I.
Latin or German, 2,	
II. TERM—Trigonometry,	Rhetoric, I,
Quantitative Chemistry,	Oratory, I.
Latin or German, 2,	
III. TERM—Analytical Geometry,	Rhetoric, I,
Quantitative Chemistry,	Oratory, I.
Latin or French,	

SOPHOMORE YEAR.

I. TERM—Rhetoric,	Drawing, I,
Biology,	Oratory, I.
<i>Quantitative Chemistry or</i>	
<i>Analytical Geometry,</i>	

II. TERM.—Invertebrate Zoölogy,	Drawing, I,
Physiology,	Oratory, I.

ELECTIVE STUDIES:

<i>History,</i>	<i>English Literature,</i>
<i>Modern Language,</i>	<i>Chemistry,</i>
<i>Differential Calculus.</i>	

III. TERM—Vertebrate Zoölogy,	Drawing, I.
Botany,	

ELECTIVE STUDIES:

<i>Chemistry,</i>	<i>Civics,</i>
<i>Anthropology,</i>	<i>English Literature,</i>
<i>Integral Calculus,</i>	<i>Modern Language.</i>

JUNIOR YEAR.

I. TERM—Psychology,	Scientific German, I,
Mechanics,	Thesis.
Physiological Psychology,	

II. TERM—Comparative Psychology,	Scientific German, I,
Physics,	Thesis.

ELECTIVE STUDIES:

<i>History,</i>	<i>Literature,</i>
<i>Ethics,</i>	<i>Modern Language,</i>
<i>Metallurgy.</i>	

III. TERM—Entomology,	Scientific German, I,
Physics,	Thesis.

ELECTIVE STUDIES:

<i>Toxicology,</i>	<i>English Literature,</i>
<i>Astronomy,</i>	<i>Modern Language,</i>
<i>Theism.</i>	

SENIOR YEAR.

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|-----------------------------------------------|------------------------------|
| I. TERM—Comparative Osteology,
Embryology, | Social Ethics, I,
Thesis. |
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ELECTIVE STUDIES:

<i>Geology,</i>	<i>Modern Language,</i>
<i>Economics,</i>	<i>Advanced Physics,</i>
<i>History,</i>	<i>Chemistry.</i>

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| II. TERM—Histology, | Political Ethics, I,
Thesis. |
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ELECTIVE STUDIES:

<i>Human Anatomy,</i>	<i>English Bible,</i>
<i>Economic Geology,</i>	<i>Modern Language,</i>
<i>Money and Banking,</i>	<i>Advanced Physics,</i>
<i>History,</i>	<i>Chemistry.</i>

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| III. TERM—Neurology,
Bacteriology, | Forestry, I,
Thesis. |
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ELECTIVE STUDIES:

<i>Chemistry,</i>	<i>Literature,</i>
<i>Advanced Physics,</i>	<i>English Bible,</i>
<i>Materia Medica,</i>	<i>Modern Language,</i>
<i>Railroad Transportation,</i>	<i>History.</i>

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VI. THE COURSE IN CHEMISTRY.

Leading to the First Degree in Chemical Science.

FRESHMAN YEAR.

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| I. TERM—Descriptive Chemistry,
Algebra,
Latin or German, 2, | Rhetoric, I,
Oratory, I. |
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| II. TERM—Qualitative Chemistry,
Trigonometry,
<i>Latin or German, 2,</i> | Rhetoric, I,
Oratory, I. |
| III. TERM—Quantitative Chemistry,
Analytical Geometry,
<i>Latin or French,</i> | Rhetoric, I,
Oratory, I. |

SOPHOMORE YEAR.

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|--------------------------------------------------------------------------------------------|----------------------------|
| I. TERM—Rhetoric,
Quantitative Chemistry,
<i>Biology or
Analytical Geometry,</i> | Drawing, I,
Oratory, I. |
| II. TERM—Quantitative Chemistry,
Invertebrate Zoölogy, | Drawing, I,
Oratory, I. |

ELECTIVE STUDIES:

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| <i>Physiology,</i> | <i>English Literature,</i> |
| <i>Differential Calculus,</i> | <i>Modern Language.</i> |
| III. TERM—Quantitative Chemistry,
Vertebrate Zoölogy, | Drawing, I. |

ELECTIVE STUDIES:

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| <i>Botany,</i> | <i>Civics,</i> |
| <i>Integral Calculus,</i> | <i>Literature,</i> |
| <i>Modern Language.</i> | |

JUNIOR YEAR.

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| I. TERM—Organic Chemistry,
Mechanics, | Scientific German, I,
Thesis. |
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ELECTIVE STUDIES:

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| <i>Toxicology,</i> | <i>History,</i> |
| <i>Psychology,</i> | <i>Modern Language.</i> |
| <i>Sociology.</i> | |
| II. TERM—Organic Chemistry,
Physics, | Scientific German, I,
Thesis. |

ELECTIVE STUDIES:

<i>Metallurgy,</i>	<i>Ethics,</i>
<i>Comparative Psychology,</i>	<i>History,</i>
<i>Sanitary Science,</i>	<i>Modern Language.</i>

III. TERM—Organic Chemistry,	Scientific German, I,
Physics,	Thesis.

ELECTIVE STUDIES:

<i>Agricultural Chemistry,</i>	<i>Entomology,</i>
<i>Astronomy,</i>	<i>Theism.</i>
<i>Modern Language.</i>	

SENIOR YEAR.

I. TERM—Physical Chemistry,	Social Ethics, I,
Geology,	Thesis.

ELECTIVE STUDIES:

<i>Embryology,</i>	<i>History,</i>
<i>Economics,</i>	<i>Modern Language,</i>
<i>Advanced Physics.</i>	

II. TERM.—Physical Chemistry,	Political Ethics, I,
Thesis.	

ELECTIVE STUDIES:

<i>Economic Geology,</i>	<i>Money and Banking,</i>
<i>Advanced Physics,</i>	<i>History,</i>
<i>Histology,</i>	<i>Modern Language.</i>

III. TERM—Physical Chemistry,	Forestry, I.
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ELECTIVE STUDIES:

<i>Advanced Physics,</i>	<i>Constitutional Law,</i>
<i>Bacteriology,</i>	<i>Railroad Transportation,</i>
<i>Modern Language.</i>	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VII. THE COURSE IN CIVIL ENGINEERING.

Leading to the First Degree in Civil Engineering.

FRESHMAN YEAR.

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|-------------------------------------------------------|-----------------------------|
| I. TERM—Advanced Algebra,
Drawing,
German, 2, | Rhetoric, I,
Oratory, I. |
| II. TERM—Trigonometry,
Drawing,
German, 2, | Rhetoric, I,
Oratory, I. |
| III. TERM—Analytical Geometry,
Drawing,
French, | Rhetoric, I,
Oratory, I. |

SOPHOMORE YEAR.

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| I. TERM—Rhetoric,
Surveying,
General Chemistry, | Geodesy, I,
Oratory, I. |
| II. TERM—Differential Calculus,
{ Descriptive Geometry,
{ Machine Design,
General Chemistry, | Geodesy, I,
Oratory, I. |
| III. TERM—Integral Calculus,
Railroad Surveying,
Qualitative Chemistry, | History of Art, I. |

JUNIOR YEAR.

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| I. TERM—Mechanics,
Strength of Materials,
Roads and Pavements, | Architectural Design, I,
Thesis. |
| II. TERM—Physics,
Masonry and Foundations,
Metallurgy, | Architectural Design, I,
Thesis. |

SOPHOMORE YEAR.

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|---------------------------------------------------------------------|------------------------------|
| I. TERM—Rhetoric,
Mechanics,
General Chemistry, | Shopwork, II,
Oratory, I. |
| II. TERM—Differential Calculus,
Mechanics,
General Chemistry, | Shopwork, II,
Oratory, I. |
| III. TERM—Integral Calculus,
Physics,
Qualitative Chemistry, | Shopwork, II. |

JUNIOR YEAR.

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|---------------------------------------------------------------------------------------------|---------------------------------------------|
| I. TERM—Electrical Measurements,
Advanced Mechanics,
Strength of Materials, | Machine Design
and Tools,
Thesis. |
| II. TERM—Direct Current Machinery,
Advanced Physics,
Metallurgy, | Machine Design
and Tools,
Thesis. |
| III. TERM—Alternating Current Machinery,
Advanced Physics,
Boilers and Steam Engines, | Gas, Oil, and Air
Engines, I,
Thesis. |

SENIOR YEAR.

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| I. TERM—Design of Electrical Machinery,
Electrical Generating Stations
and Transmission,
Graphical Analysis of Structures, | Social Ethics, I,
Thesis. |
| II. TERM—Design of Electrical Machinery,
Telegraphs, Telephones, Signal-
ing Apparatus,
Hydraulic Motors, | Political Ethics, I,
Thesis. |
| III. TERM—Electric Lighting,
Electric Railways,
Water Supply and Sanitary En-
gineering, | Contracts and Speci-
fications, I,
Thesis. |

DEPARTMENTS OF INSTRUCTION.

The method of instruction in the College is varied according to the nature of the subject. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each branch as the subject-matter requires, yet all are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations. The range and character of the instruction can be gathered from the following account of the different departments.

I. DEPARTMENT OF PHILOSOPHY.

JOHN HOWARD HARRIS, LL. D.,
PROFESSOR OF PSYCHOLOGY AND ETHICS.

CALVIN AURAND HARE, A. M.,
PROFESSOR OF CHRISTIAN EVIDENCES AND LOGIC.

THOMAS ALPHEUS EDWARDS, A. M.,
PROFESSOR OF PEDAGOGY.

The studies in this department embrace Psychology, Philosophy, Ethics, Theism, and Pedagogy.

1. **Psychology, Descriptive and Explanatory.** Required Course. Juniors. First term, five hours.

2. **Physiological and Experimental Psychology.** Elective to Seniors and Juniors. First term, five hours.—PROFESSOR DAVIS.

3. **Lotze, Grundzuege der Psychologie.** Seniors and Juniors. Two hours.

4. **Philosophy of Mind.** Elective to Seniors and Juniors. Second term, five hours.

5. **Logic, Deductive and Inductive.** Second term, five hours.—PROFESSOR HARE.

6. **Scientific Method, with Exercises in Analysis.** Seniors and Juniors. Second term, five hours.—PROFESSOR HARE.

7. **Argumentation.** Baker's *Principles of Argumentation*. Briefs, forensics, and oral discussion. Third term. (Rhetoric, 3.) PROFESSOR PHILLIPS.

8. **History of Philosophy.** Lectures. Required of Juniors. Second term, two hours.

9. **Greek Philosophy** (Greek, 10). Elective to Seniors and Juniors.—PROFESSOR HAMBLIN.

10. **Roman Philosophy** (Latin, 16). Elective to Seniors and Juniors.—PROFESSOR ROCKWOOD.

11. **Modern Philosophy**, Weber. Lectures and Reading. Seniors and Juniors. Third term, five hours.

12. **Ethics.** Required of Juniors. Second term, four hours.

13. **Social Ethics.** Lectures. Required of Seniors. First term, one hour.

14. **Political Ethics.** Lectures. Required of Seniors. Second term, one hour.

15. **Practical Ethics.** Lectures.—DR. WHITMAN.

16. **Philosophy of Religion.** Required of Juniors. Third term, five hours.

17. **Evidences of Christianity.** Elective to Seniors. Second term, five hours.—PROFESSOR HARE.

18. **Bible Study.** Lectures on Biblical Themes, by the President. Sundays, 9.30 to 10.15.

EDUCATION.

19. **History of Education.** A general sketch of educational Theory and Practice in Ancient and Modern times. Lectures. Required of Juniors. Third term, one hour.—PROFESSOR EDWARDS.

20. **Psychology of Education.** Based on Harris' *Psychologic Foundations of Education*. Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR EDWARDS.

21. **Comparative and Child Psychology.** Text-book, reports. Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR DAVIS.

22. Philosophy of Education. Based on Horne's Philosophy of Education. Elective to Juniors and Seniors. Third term, five hours.—PROFESSOR EDWARDS.

23. School Administration. High School organization, function and management; discussion of methods; survey of College Entrance Requirements. First term, five hours.—PROFESSOR EDWARDS.

24. Teachers' Course in American History. Methods of teaching History with special reference to the work of secondary schools. Second term, two hours.—PROFESSOR COLESTOCK.

25. Teachers' Course in Greek. The Anabasis and Iliad are used as text. The preparatory work is reviewed, and suggestions made regarding methods of teachings. Some informal lectures are also given regarding the first year's work in Greek. First term, five hours. Seniors and Juniors.—PROFESSOR HAMBLIN.

26. Teachers' Course in Latin. Special topics in grammar, with practical exercises in Cæsar, Cicero, Vergil. Third term, five hours. Seniors and Juniors.—PROFESSOR ROCKWOOD.

27. Teachers' Course in English. Designed to familiarize the student with the authors required for entrance to college.—PROFESSOR PERRINE.

28. Teachers' Course in Mathematics. Mathematics as developed in history and as used in education. (a) Arithmetic: Its culture value, utility, present status in the schools: reforms in arithmetical teaching. (b) Algebra: Its growth during the last three centuries, typical parts (ethical value). (c) Geometry: Its basis, historical position, methods, recent geometry.—PROFESSOR BARTOL.

CERTIFICATES.

The courses in education and methods of teaching, including Child Psychology, the History, the Psychology, and the Philosophy of Education, are helpful to those intending to teach. Students who take not less than eight of these courses will be entitled to a certificate for the work done in addition to the diploma of the Course in which they graduate.

REGISTER OF TEACHERS.

In order to aid Boards of Control in securing suitable teachers, there is kept a registry of graduates of Bucknell University who may wish to engage in teaching. Alumni and friends of the College will render a service if they will inform the President of vacancies.

II. DEPARTMENT OF LAW.

HAROLD MURRAY MCCLURE, A. M.,
PRESIDENT JUDGE OF THE SEVENTEENTH JUDICIAL DISTRICT,
LECTURER ON CONTRACTS AND PARTNERSHIP.

FREDERIC EVANS BOWER, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON EVIDENCE AND EQUITY.

ALBERT WILLIAM JOHNSON, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON REAL AND PERSONAL PROPERTY.

The Bucknell College of Liberal Arts offers in its courses for the degrees in Arts and Science a number of subjects specially bearing upon the study of law. Students prepared for college and having taken one year's work in liberal studies, will be admitted to the studies in Law. The instruction is by text-book, lecture, and study of cases. The texts of "Leading Cases" have been placed in the library for the use of students. A certificate for the work done is given by the department, in addition to the Diploma of the College. But this certificate is not given for any legal subject in which the student's standing is below nine; nor to any student whose general average is below nine. The law studies are counted towards the degree in Liberal Arts, to the amount of one year's work. Opportunity is given for the *Review* of the *Latin, History* and *Literature* required in the Preliminary Examination for registration as students of Law in Pennsylvania.

1. **Elementary Law.** Robinson's Elementary Law. Third term. Sophomore year.—PROFESSOR COLESTOCK.

2. **Blackstone's Commentaries.** B. I, III, IV. One hour, Junior year, three terms.—PROFESSOR COLESTOCK.

3. **Real Property.** Blackstone B. II, and Select Cases, Lectures. First term, Junior year.—MR. JOHNSON.

4. **Personal Property.** Text-book, Select Cases, Lectures. Second term, Junior year.—MR. JOHNSON.

5. **Contracts.** Text-book, Select Cases, Lectures. First term, Senior year.—JUDGE MCCLURE.

6. **Equity.** Text-book, Select Cases, Lectures. Third term, Junior year.—MR. BOWER.

7. **Evidence.** Text-book, Select Cases, Lectures. Third term, Senior year.—MR. BOWER.

8. **Partnership.** Text-book, Leading Cases, Lectures. Second term, Senior year.—JUDGE MCCLURE.

9. **Principles of International Law.** Fall term, Seniors and Juniors.—PROFESSOR HEIM.

10. **Roman Law.** Third term, Seniors and Juniors.—PROFESSOR ROCKWOOD.

11. **American Civics.** A study of the frame of Federal and State Government.—PROFESSOR COLESTOCK.

12. **The Constitution of Pennsylvania.** Review of the principal decisions of the Supreme Court interpreting the provisions of the Constitution.—PROFESSOR HEIM.

13. **American Constitutional Law.** Third term, Seniors and Juniors.—PROFESSOR HAMBLIN.

14. **Constitutional Limitations.** Cooley's Constitutional Limitations and cases.—PROFESSOR HEIM.

15. **Comparative Constitutional Law.** Second term, Seniors and Juniors. A comparison of the Constitutions of England, France, Germany, Switzerland, and the United States.—PROFESSOR HEIM.

16. **Moot courts** are held in which an attorney-at-law and a student sit as judges, and students, deputed to represent the respective sides, present their arguments. The presiding student writes the opinion of the court.

III. DEPARTMENT OF ECONOMICAL AND POLITICAL SCIENCE.

EPHRAIM M. HEIM, PH. D., PROFESSOR.

1. **Economics, I.** General course, devoted chiefly to problems of Production and Distribution.

2. **Economics, II.** Money and Banking. Prerequisite, Course I.

3. **Economics, III.** Public Finance. Financial Administration, Taxation and Public Debts. Alternating with Course II. Prerequisite, Course I.

4. Corporate Finance and Commercial Law. Organization and Management of Corporations. Corporation Finance. Form and Nature of Securities and Commercial Paper. Funding Operations, Accounting and Auditing. Nature and Operations of Special Groups of Corporations, such as Public Service Companies, Financial Institutions, Insurance, etc.

5. Transportation and Commerce. Development of Foreign and Inland Commerce and Transportation. Organization and Methods of Railway Transportation. Theory of Rates, and Methods of State Control. Ocean Transportation, Shipping, and Navigation Acts. Commercial Geography.

6. Industrial History of United States. Development of Business Organization. Evolution of Types of Industry. Changes in Land Tenure; in the Distribution and Marketing of Products; in Forms of Exchange; in Insurance; in Organization of Labor Force; in Legislative Policy. Race Elements in American Industry.

7. Economics. Two hours a week. One of the following subjects will be studied: (1) English Economic History; (2) Socialism; (3) Labor Legislation.

8. American Civics and Parliamentary Law. A study of the American frame of Federal and State Government; and of Parliamentary rules and usages.—PROFESSOR COLESTOCK.

9. American Constitutional Law. Cooley's Elements of Constitutional Law. A study of the law of the Federal Constitution.—PROFESSOR HAMBLIN.

10. Constitutional Limitations. The Constitutional Law of the American Commonwealth. The sphere of Civil Rights in relation of the exercise of governmental power through the criminal law, the police power, the taxing power, and the power of eminent domain. First term; five hours.

11. Comparative Politics. A comparative study of the Constitutions of England, France, Germany, Switzerland, and the United States. Second term; five hours.

12. Municipal Government. Organization of City Government. Problems of Administration, Municipal Functions. Relation to the State. Second term; five hours. Seniors and Juniors.

13. International Law. First term; five hours. Seniors and Juniors.

14. **Political Parties and Party Government.** Origin and Growth of Party Government in the United States. Basis of Party Division. Rise and Decline of American Parties. Organization and Machinery of Party Government. European Parties. Lectures, one hour a week, throughout the year. Required in Jurisprudence Course.

15. **Political Science.** Minor Course, two hours. One of the following will be given: (1) Elements of Political Science; (2) Administrative Law.

16. **American Diplomacy.** Minor Course. Two hours.

IV. DEPARTMENT OF SOCIOLOGY.

WILLIAM EMMET MARTIN, A. M., PROFESSOR.

1. **Anthropology, Descriptive and Physical.** Elective to Sophomores. Third term, five hours.

2. **Sociology, Principles and Theory.** Elective to Seniors and Juniors. First term, five hours.

3. **Charities and Reform.** Seniors and Juniors. Second term, one hour. Prerequisite Course 2.

4. **Municipal Sociology.** Seniors and Juniors. Second term, five hours.

5. **History of Art.** Lectures. Sophomores. Third term, one hour.

V. DEPARTMENT OF HISTORY.

HENRY THOMAS COLESTOCK, PH. D., PROFESSOR.

History is approached in the gradually unfolding life-story of the race.

1. **Oriental History.** A survey of the civilizations along the Nile and the Euphrates, including Egypt, Babylonia, Assyria, Phœnicia, and Persia, constituting an introduction to biblical and classical times. First term, five hours.

2. **Hebrew History and Literature.** Second term, five hours.
—PROFESSOR PHILLIPS.

3. **New Testament History and Literature.** Third term, five hours.—PROFESSOR PHILLIPS.

4. **Greek Political and Constitutional History.** First term, five hours.—PROFESSOR HAMBLIN.

5. **Roman History.** Second term, five hours.—PROFESSOR ROCKWOOD.

6. **Roman Private Life.** Second term, five hours.—PROFESSOR BALLENTINE.

7. **Medieval Europe.** General survey of Western Europe, from the fourth to the thirteenth century, with especial attention to the institutional life of the people and the progress of civilization. First term, five hours.

8. **Modern Europe to 1789.** From the thirteenth century to the opening of the French Revolution. Considers especially the Renaissance, the Protestant Reformation, and conditions combining to produce the French Revolution. Second term, five hours.

9. **Modern Europe since 1789.** The French Revolution, the Napoleonic era, Unification in Germany and Italy. Progress in civilization, social and industrial conditions. Third term, five hours.

10. **History of England.** Political and industrial development of the English people from the earliest times. Second term, five hours.

11. **Constitutional History of England.** With especial reference to the growth and development of the present form of constitutional government in England. Second term, five hours. To alternate with Course 10.

12. **American Colonial History.** European background of American colonization. Political, industrial, and constitutional conditions in the English colonies. Causes and results of the Revolutionary War.

13. **American Constitutional History.** Origin of the Federal constitution. Growth of nationality. Conflict between nationality and State sovereignty. Issues involving the interpretation of the constitution.

14. **Teachers' Course in American History.** General survey of American history, designed to meet the needs of those who expect to teach history in secondary schools. Minor course.

15. **The Far East.** Survey of present conditions, social and constitutional, in Japan and China. Minor course.

16. **Historical Biography.** Detailed study of one or more important historical characters.

17. **Present Conditions in Russia.** Minor course.

VII. THE GREEK LANGUAGE AND LITERATURE.

THOMAS FRANKLIN HAMBLIN, A. M., PROFESSOR.

There are four terms of required work in Greek in the Classical Course, and five in the Greek Philosophical Course; while Greek may be taken as an elective during the entire Junior and Senior years. Besides the Elective courses a number of Minor Courses are offered. In the Elective courses a year of poetry alternates with a year of prose. A course of lectures on the Greek poets is given to the Seniors, with collateral reading. A course of New Testament Greek, designed especially for candidates for the ministry and extending through the Senior year is given by Professor Phillips.

Courses: 1-5, required; 6-15, elective.

1. **Homer.** Odyssey, Books 5-8. Review of verb forms and syntax of verbs. Epic forms and styles. Word lists. Metre. First term, Freshman year.

2. **Lysias.** Six orations. Inflection and syntax of nouns. Prose composition. Attic oratory. Translation at sight and hearing. Second term, Freshman year.

3. **Plato.** Apology and selections. Special topics in Greek Syntax. Philosophy and influence of Socrates. The Sophists. Extracts from the Memorabilia at sight. Third term, Freshman year.

4. **Greek Political and Constitutional History.** Bury's History of Greece is used as a text-book. The class is also required to do collateral reading on important epochs. First term, Sophomore year.

5. **Demosthenes.** Olynthiacs and Philippics. History and Politics of the Macedonian period. Style of Demosthenes. Second term, Sophomore year.

6. **Æschylus and Sophocles,** Prometheus Bound and Œdipus Tyrannus. The drama, theatre, and metres. First term, Seniors and Juniors, in alternate years.

7. **Euripides and Aristophanes, Medea and The Clouds.** Greek Comedy. Religious influence of the poets. Influence of the Classical on the Modern Drama. Second term, Seniors and Juniors, in alternate years.

8. **Greek Literature in English.** A course especially designed for students in the Philosophical or Scientific Courses, that they may become acquainted with some of the Greek masterpieces. The best translations will be studied and explained, and informal lectures will be given on various phases of Greek Literature. Third term, Senior and Junior years.

9. **Demosthenes. De Corona.** The oratory of Demosthenes, from a literary and political point of view. Æschines against Ctesiphon at sight. Second term, Seniors and Juniors, alternating with 6.

10. **Plato.** The *Phaedo*. Greek Philosophy. The influence of Plato. Third term, Seniors and Juniors; alternating with 7.

11. **New Testament Greek.** The Gospel according to Luke. Hellenistic Greek. Second and third terms, Freshman year; one hour a week.

12-14. **New Testament Greek.** Translation of the synoptic Gospels; interpretation; Burton's *Moods and Tenses*; characteristics of Hellenistic Greek. Designed for students desiring a linguistic and historical foundation for the interpretation of the New Testament. Three terms. Elective to Seniors.—PROFESSOR PHILLIPS.

15. **Teachers' Course in Greek.** The *Anabasis* and *Iliad* are used as text-books. Thus the Preparatory work may be reviewed, and suggestions received regarding the methods of teaching. Some informal lectures are also given regarding the first year's work in Greek. First term, Seniors and Juniors.

16. **Xenophon.** The *Symposium* and *Œconomicus*. Sophomores and Freshmen. Winter terms in alternate years, one hour.

17. **Homer and Lucian.** Selections from each in alternate years. Sophomores and Freshmen. Third term, one hour.

18. **Xenophon and Æschines.** The *Memorabilia* and the oration against Ctesiphon, in alternate years. Seniors and Juniors, first term, one hour.

19. **Sophocles and the Lyric Poets.** *Antigone* and selections from the Lyric Poets in alternate years. Seniors and Juniors, second term, one hour.

VII. THE LATIN LANGUAGE AND LITERATURE.

FRANK ERNEST ROCKWOOD, LL. D., PROFESSOR.

FLOYD GEORGE BALLENTINE, PH. D., ASSISTANT PROFESSOR.

There are four terms of required work in Latin and eleven of elective in the Classical and Latin Philosophical Courses. Special courses, subject to change from time to time, are also offered.

A. Candidates for the Degree of Bachelor of Science take Latin daily during the Freshman year. This course is intended for students who have passed only in the General Requirements in Latin, for admission. The work consists in the study of *Cicero* (*selected speeches*) and *Vergil*, or *Livy*, and *Prose Composition*.

B. The following courses are designed for students in the Classical and Philosophical Courses, but are also open as electives to students in the Science Course who may be qualified to take them:

Courses: 1-4, required; 5-15, elective.

1. **Cicero.** *De Senectute*. Livy: Book I. Review of special topics in Latin grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year, two divisions.

2. **Livy:** Books XXI and XXII. Latin Prose Composition, based upon the text. Roman history: Special chapters in Liddell. Second term, Freshman year, two divisions.

3. **Velleius:** Roman History. Pliny. Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Third term, Freshman year, two divisions.

4. **Horace:** Selections from the Odes, Satires, and Epistles. Prosody; Historical Outlines of the Latin Language and Literature; Wilkins' Primer; Lectures. First term, Sophomore year, two divisions.

5. **Roman History:** The work is based on Allen's Rise and Fall of Rome. Mommsen, Bury, and Gibbon are used for supplementary reading. Second term, Sophomore year.

6. **Quintilian:** Books X and XII. Roman Literature. Second term; open to those who have taken course 4; alternating with 12.

7. **Juvenal:** Selected Satires. Third term; open to those who have taken course 4.

8. **Plautus:** Selected Plays. First term; open to Seniors and Juniors; alternating with 11.

9. **Terence:** Andria, Hauton Timorumenos, and Phormio; lectures on such subjects as the life and influence of Terence, the Roman theatre, the production of comedy, etc. Second term; open to Seniors and Juniors; alternating with 14.

10. **Latin Inscriptions:** Allen's Remnants of Early Latin; Egbert's Manual. Third term; open to Seniors and Juniors; alternating with 13.

11. **Tacitus:** Annals. Translation at sight. Roman History. First term; open to Seniors and Juniors; alternating with 8.

12. **Latin Poets:** Crowell's Selections. Roman Literature. Second term; open to those who have taken course 4; alternating with 6.

13. **Teachers' Course in Latin:** Special topics in grammar with practical exercises in Cæsar, Cicero, Vergil. Third term; open to Seniors and Juniors; alternating with 10.

14. **Roman Private Life:** Lectures; required reading; one report, involving elementary investigation. Second term; open to Seniors and Juniors; alternating with 9.

15. **Roman Law:** Morey's Roman Law; Sandar's Institutes of Justinian; lectures and reports. Third term; open to Seniors; required in the Course of Jurisprudence.

16. **Roman Philosophy:** Cicero and Seneca, one hour.

17. **Christian Writers:** Tertullian and Latin Hymns, one hour.

18. **Classical Philology:** Introductory Course, one hour.

VIII. THE ENGLISH LANGUAGE AND LITERATURE.

ENOCH PERRINE, LITT. D., PROFESSOR.

1. **English Literature,** introductory course. Designed to give a general knowledge of the history of English Literature from the Elizabethan to the Victorian periods, inclusive. Required, second term, Sophomore.

2. **Anglo-Saxon:** Old English Language and Literature, with special elective in Beowulf. Elective for those who have taken course 1 and the required work in German.

3. **Chaucer:** Middle English Language and Literature, with readings in Langland and Gower, and in Lounsbury's The English Language. Elective for those who have taken course 1 and the required work in French.

4. **The English Drama:** its development from the earliest times to Shakspeare. Elective for those who have taken Courses 1 and 7, and alternating with course 9.

5. **Shakspeare:** His mind and art. Critical study of A Midsummer Night's Dream, Hamlet, and Tempest. Senior elective.

6. **The Georgian Period of English Literature:** Elective for those who have taken course 1, and alternating with course 7.

7. **English Literature from 1830.** Elective for those who have taken course 1, and alternating with course 6.

8. **American Literature,** with special reference to the national period. Elective for those who have taken course 1.

9. **Principles of Literary Criticism.** Elective for those who have taken courses 1, 7, and 8, and alternating with course 4.

10. **Periods of English Literature.** Special work is given in different periods of English Literature to those who have passed with credit in courses 1, 4, 7, and 8.

11. **English Oratory,** a study of the oration as a literary form. Elective for those who have taken course 1 and the required courses in Rhetoric.

12. **Journalism,** a study and practice of the various forms illustrated in the metropolitan "dailies," together with proof-reading, study of the functions of editors, and readings in the history of great American journalists and journals. Elective for those who have taken course 1 and the required courses in Rhetoric.

13. **Foreign Literature in English.** Lectures on some of the world's masterpieces are given to the Seniors on Monday mornings during the third term.

14. **Teachers' Course in English.** Designed to familiarize the student with those authors, both in the way of theory and practice, that are required for entrance to college. Two hours.

15. *Le Public et les Hommes de Lettres en Angleterre, 1660-1744*; Beljame; or *Ecrivains Modernes de L'Angleterre*, Montegut.

16. *Shakspeare: Fünf Vorlesungen von Bernhard ten Brink.*

17. *Studies in the Poetry of Revolt: Wordsworth, Coleridge, Shelley, Byron.* Elective to those who have taken courses 1 and 6.

IX. RHETORIC AND ORATORY.

LLEWELLYN PHILLIPS, A. M., PROFESSOR.

BROMLEY SMITH, A. M., INSTRUCTOR IN RHETORIC AND ORATORY.

CHARLES FRANCIS POTTER, ASSISTANT IN RHETORIC.

A.—COURSES IN RHETORIC AND COMPOSITION.

1. **Rhetoric and English Composition:** Introductory course. Themes, weekly recitations, and consultations. Three terms; one hour. Required of Freshmen.

Students who show good preparation are admitted to a special section, in which more advanced work is given.

2. **English Composition:** Daily themes, recitations, and consultations. First term, five hours. Required of Sophomores.

3. **Argumentation:** Baker's *Principles of Argumentation*. Briefs, forensics and oral discussion. Third term. Open to students who have passed in 1 and 2.

4. **English Composition:** *Advanced Course*. Wendell's *English Composition*. Daily and fortnightly themes, recitations, and consultations. Second term; five hours. Open to Seniors and Juniors.

5. **Theses.** Every member of the Junior and the Senior Class writes a thesis. The Junior theses contains not less than two thousand words, the Senior theses not less than three thousand words. The subjects are chosen in conjunction with the heads of the departments to which the subjects belong. Upon these theses are based the Junior Exhibition orations and the Commencement orations. The subjects of the theses are presented to the Professor of Rhetoric before October 22, and an outline of each thesis is presented to the Professor of Rhetoric at the close of the first term. The completed theses are handed in before March 1. They are examined first by the heads of the departments to which the subjects belong and afterwards by the Professor of Rhetoric. The subjects of the Senior theses are published in the annual Catalogue.

6. **English Prose.** Studies in Structure. Two hours.

7. **English Prose.** Studies in the Principles of style. Two hours.

8. **Teachers' Course.** The theory and practice of Rhetoric and Composition. Carpenter, Baker, and Scott. The teaching of English. Five hours. Open to students who have attained an average grade of nine in courses 1, 2, and 4.

9. **The Theory of Rhetoric.** A study of the laws of thought.

10. **Movements of Thought in the Nineteenth Century.** Methods of investigation; theses. Open to Seniors.

B.—COURSES IN ORATORY.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. All instruction is based upon the principle that impression precedes and determines expression. Each student receives individual attention during the first half of the course in elocution, during the latter half in oratory. Special attention is given to debate. Each student is urged to take an active part in the work of the Literary Societies.

The ultimate object of the *physical culture* is to secure a good presence and the ability on the part of the voice and body to interpret correctly the conceptions of the mind.

FRESHMEN.

1. **Physical Culture.** Exercises for securing correct position, and harmony of movements and attitudes; exercises for breath control and vocal culture and for grace in gesture.

2. **Public Speaking.** Study of the fundamentals of public speaking; delivery of short extracts from masterpieces of oratory, aiming to secure directness, earnestness, and dignity of address. Required, first and second terms, one hour.

3. **Public Speaking.** Delivery of complete orations illustrating and applying the principles studied in the first and second terms. A prize is offered to the young man and one to the young woman of the Freshman Class who excels in the delivery of these orations. Required, third term.

SOPHOMORES.

4. **Public Speaking.** Close analysis and study of the details of public speaking; study of the various styles of delivery and of the different forms of discourse. Delivery of selected extracts from

masterpiece illustrating each. Extemporaneous speaking. Reviews and continuation of the physical culture of course 1. Required, first term, one hour.

5. **Public Speaking.** Study of narration. Description and argumentation. Delivery of selections illustrating each. Preparation and delivery of original narrations and descriptions. Extemporaneous speaking. Required, second term, one hour.

6. **Public Speaking.** Delivery of complete argumentative selections. Preparation for and participation in debate. A prize is awarded to the young man of the Sophomore Class who shall excel in the delivery of an assigned selection in argumentation. A prize is awarded to the young woman of the Sophomore Class who shall excel in the delivery of an assigned selection in narration. Third term.

7. **Public Address.** The various forms of addressing the public are studied. Beginning with open letters and editorials, the class advances to presentations, acceptances, nominations, dedications, inaugural addresses, institute talks, banquet toasts, eulogies, commemorative orations, etc. Each student prepares and delivers before his class specimens from the above forms. Third term, five hours; Sophomores.

8. **Practical Oratory.** Briefs and notes are made the basis for extemporaneous addresses; Congressional speeches and modern occasional orations are outlined and studied. The application of rhetorical and of oratorical principles in their connection with logic is considered. Special work in line with the student's intended profession is given. A limited field, historical, economic, or otherwise, is assigned to each student for development. When his orations have been examined and corrected, the student delivers them before the class. First term, five hours; Seniors and Juniors.

9. **Interpretative Reading.** The use of the voice in bringing out the meaning of the best literature is obtained by practice in class. Attention is given to the pedagogical and psychological aspects of reading. Second term, five hours; Seniors and Juniors.

JUNIORS.

10. **Prize Contest.** A prize contest in Oratory is held in the third term by Juniors, appointed on the ground of superiority in composition and elocution as shown during the preceding terms of the college course.

11. **Prize and Honor Debate.** During the year there are three debates by Juniors, the last of which is a prize and honor debate.

12. **Oral Debates.** Briefs, Debates, and Criticism. The Professor of Economic and Political Science coöperates in this course. First term; one hour.

The contestants for the Junior Prize are selected from the students who take this course.

SENIORS.

13. **Honors in Debating.** During the year an elective course in debating is offered to Seniors. The last debate is public.

14. **Prize in Oratory.** A prize is offered for the best oration of those delivered by the Senior orators at Commencement, regard being had equally to subject-matter, style, and delivery.

X. DEPARTMENT OF MODERN LANGUAGES.

GUIDO CARL LEO RIEMER, A. M. PH. D., PROFESSOR.

ELYSEE AVIRAGNET, A. M., PROFESSOR OF THE ROMAN LANGUAGES.

PAUL EMIL WEITHAASE, A. M., ASSISTANT PROFESSOR OF GERMAN.

CHARLES FREEMAN NEVINS, A. B., INSTRUCTOR IN FRENCH.

A.—GERMAN.

1a. **Elementary Course.** Grammar; German Prose; practice in writing German. Two terms.

1b. **Elementary Course.** Grammar; German prose; practice in writing German. Required course, Sophomores of the Classical Course. Third term, five hours.

2. **German Prose.** Grammar; practice in writing German. Required course, Freshmen of the Scientific Course; elective course for those who have taken 1a or 1b.

3. **German Prose and Poetry.** Grammar; practice in writing German. Required course, Freshmen of the Scientific Course; elective course for those who have taken course 2.

4. **Historical and Critical German Prose.** Practice in writing German. Elective course for those who have taken course 3.

5. **Modern German Novelists.** Practice in writing German. Elective course for those who have taken course 4.

6. **Schiller.** Practice in writing German. Elective course, for those who have taken course 4.

7. **Goethe.** Practice in writing German; lectures. Elective course, for those who have taken course 4.

8. **Goethe.** Practice in writing German; lectures. Elective course, for those who have taken courses 5-7.

9. **Goethe.** Shorter Poems, *Dichtung und Wahrheit*, *Faust I*; lectures. Elective course for those who have taken course 8.

10. **Lessing.** Practice in writing German; lectures. Elective course for those who have taken course 9.

11. **Kleist, Grillparzer and Heine.** Practice in writing German; lectures. Course 11 alternates with course 8.

12. **Ludwig, Hebbel and Uhland.** Practice in writing German; lectures. Course 12 alternates with course 9.

13. **Middle High German.** Practice in writing German; lectures. Course 13 alternates with course 10.

14. **Lotze.** *Grundzüge der Psychologie.* (Philosophy 3).

15. **Shakspeare: Fünf Vorlesungen.** (English 16.)

16. **German Political Science.** (Economics 16.)

17. **German Biological Science.** (Biology 21.)

18. **German Chemical Science.** (Chemistry 16.)

B.—FRENCH.

1a. **Elementary Course.** Grammar; French prose; practice in writing French. Required course, Freshmen of the Scientific and Philosophical Courses.

1b. **Elementary Course.** Grammar; French prose; practice in writing French. Required course, Juniors of the Classical Course.

2. **French Prose.** Grammar; practice in writing French. Elective course for those who have taken course 1a or 1b.

3. **French Prose and Poetry.** Grammar; practice in writing French. Elective course for those who have taken course 2.

4. **Historical and Critical French Prose.** Practice in writing French. Elective course for those who have taken course 3.

5. **Authors of the XIX Century.** Practice in writing French. Elective course for those who have taken course 4.

6. **Corneille and Racine.** Practice in writing French; lectures. Elective course for those who have taken course 5.

7. **Molière.** Practice in writing French; lectures. Elective course for those who have taken course 6.

8. **Authors of the XVIII Century.** Practice in writing French; lectures. Elective course for those who have taken course 7.

9. **A View of French Literature.** Rapid reading; practice in writing French; lectures. Elective course for those who have taken course 8.

10. **Conversational French.** A course in French conversation is given by Dr. Aviragnet to students who have made sufficient progress in the language.

11. **French Prose Composition.** In addition to the practice in writing French required in all courses, Dr. Aviragnet gives annually a special course.

12. **Publique et les Hommes de Lettres, or Ecrivains Modernes de l'Angleterre.** (English 15.)

C.—SPANISH.

DR. AVIRAGNET.

1. **Elementary Spanish.** Grammar. Conversation. Translation of easy prose. Elective course, for Seniors and Juniors. First term, five hours.

2 and 3. **Spanish Prose.** Translation, Composition, Conversation. Elective course, for Seniors and Juniors. Second and third terms, five hours.

XI. DEPARTMENT OF MATHEMATICS.

WILLIAM CYRUS BARTOL, PH. D., PROFESSOR.

JOSEPH MEIXELL WOLFE, A. M., ASSISTANT PROFESSOR.

CHARLES ARTHUR LINDEMANN, A. M., ASSISTANT PROFESSOR.

FRANK MORTON SIMPSON, SC. M., ASSISTANT PROFESSOR.

_____, ASSISTANT PROFESSOR

IN ELECTRO-TECHNICS.

FRANK EUGENE BURPEE, A. M., INSTRUCTOR.

HARRY C. THOMPSON, ASSISTANT.

1. **Solid Geometry.** The course includes the geometry of solids with plane surfaces, the cone, the cylinder, the sphere, the

spherical triangle, and conic sections. Freshman year, first term, five hours.

2. **Algebra.** The topics are ratio, proportion, variation, progressions, theory and development of functions, logarithms, differentiation of algebraic functions, indeterminate equations, series, higher equations. Freshman year, first or second term, five hours.

3. **Determinants and Advanced Algebra.** Minor course, open to Freshmen of the Engineering course and to Sophomores of the Arts and Science courses. Second term, two hours.

4. **Trigonometry.** The course includes plane trigonometry with application to problems in mensuration and surveying, and spherical trigonometry with applications to problems in astronomy. Freshman year, second or third term, five hours.

5. **Analytical Geometry.** The student is taken through the elementary properties of the right line, the circle, and the conic sections, and higher plane curves. The course is intended to give a clear conception of the methods of Cartesian analysis rather than an extensive knowledge of its results. Freshman year, third term, five hours, or Sophomore year, first term, five hours.

6. **Higher Analytical Geometry.** The course covers the geometry of three dimensions surfaces of revolution and higher plane curves; alternating with course 14. Junior year, second term, five hours.

7. **Differential Calculus.** The course includes higher derivatives and functions of several variables, infinite series, maxima and minima. Prerequisite, course 5. Sophomore year, second term, five hours.

8. **Integral Calculus.** The course includes the simpler methods of integration, rectification and quadrature of plane curves, surfaces and solids of revolutions, and applications to problems in Physics and Mechanics. Sophomore year, third term, five hours.

9. **Differential Equations.** A course with mechanical applications. Junior year, second term, five hours.

10. **Descriptive Astronomy.** The aim of the course is to present in concise form a synopsis of astronomical knowledge to date. Lectures. Sophomore year, Arts and Science courses, second term, one hour.

11. **General Astronomy.** The subject is taught by text-book, with illustrations in the observatory. The students have free use of the ten-inch equatorial telescope. Third term, five hours.

12. **Geodetic Astronomy.** The course includes the use of the astronomer's transit and micrometer; observations for Time; conversion of Time; Latitude, Longitude, Azimuth and their geodetic determination; figure and dimensions of the Earth; use of the American Ephemeris; practice in the Observatory. Prerequisites, a course in Surveying and one in the Elements of Astronomy. Seniors, first term, five hours.

13. **Plane Surveying.** *Land Surveying*, laying-out, subdividing, and finding the area of given tracts of land. *Topographical Surveying*, by chain and compass, by plane table, and by transit instrument and stadia rods. Sophomore year, first term, five hours

14. **Geodetic Surveying.** Minor course. Sophomore year. Civil Engineering, first and second terms, one hour.

15. **Railroad Surveying.** Instruction is given in the theory of simple and compound curves, wyes, switches, and turn-outs. A corps is organized, which makes a preliminary survey of a cross-country railroad. The topography of this is taken and plotted; elevation of centre line taken; grade determined; degree of curves fixed, and paper location made. Centre line of permanent survey is now located; slope stake set; earthwork calculated; specifications drawn up, and estimates made of the line surveyed. Sophomore year, Civil Engineering, third term, five hours.

16. **Mine Surveying.** Problems in Mine Surveying, such as plumbing the shaft, locating the bore holes, lining up chambers, driving tunnels, are worked out in class and with the instruments. Plotting of notes forms a part of the work, and a trip of inspection is made to some nearby workings. Senior year, Civil Engineering, third term, five hours for six weeks.

17. **City Surveying.** Town sites are located and plotted; permanent reference points and bench marks established; sewers located and calculated; curb and property lines determined. Senior year, Civil Engineering, third term, five hours for six weeks.

18. **Descriptive Geometry.** A study of the representation of lines, plane surfaces, solids, and sections of solids; the projection of points, lines, and surfaces; practical problems. Engineering Courses, Sophomore year, second term, five hours.

19. Linear Perspective. A course of twelve lectures designed to familiarize the student with the principles of perspective, and to give him an insight into their manifold applications. Arts and Science Courses, Sophomore year, first term, one hour.

20-22. Courses in Drawing. Extending through the Freshman year of the course in Civil and Electrical Engineering, and required of all candidates for the first degree in Civil or Electrical Engineering. Ten hours a week.

(1.) **Linear and Freehand.** An elementary course in drawing to give the student facility in the use of instruments; Geometrical problems; cross-sectioning; shading; isometric drawing; sketching from models.

(2.) **Lettering.** The form and proportion of standard letters; structural details; methods of spacing; laying out titles.

(3.) **Architectural Drawing.** Plans, elevations, and perspective drawings; copying of standards.

(4.) **Pen and Color Topography.** Topographical signs; methods of hill shading; surface forms by contours and in color and pencil; enlarging and reducing maps, rendering in water colors, sepia, and charcoal.

(5.) **Tracing and Blue Printing.** Photographic methods of the Architect and Engineer.

23. Precise Surveying. Given in connection with the courses in surveying. Sophomores, second term, one hour.

24. Machine Design. Problems in drawing and designing. Second term, Sophomore Engineering, one hour.

25. Architectural Design. The design of brick and stone structures, including the preparation of plans and specifications. Junior Engineering, one hour, first and second terms.

26-28. General Physics. (Three terms.) These courses in Physics are required in the Engineering Courses and are elective in the other courses. Instruction is given in the Laboratory supplemented by recitations and lectures.

(a) **LABORATORY.** The Laboratory instruction extends throughout the year and includes experiments illustrating the general laws in all branches of physics. The experiments are largely quantitative and use is made of instruments of precision. The work is entirely individual. The student is required to take notes in the

Laboratory, elaborating them outside and presenting for criticism from time to time.

(b) **RECITATIONS.** Recitations supplement the laboratory work. The study of a text covering the theoretical and mathematical side of the subject is required.

(c) **LECTURES.** Frequent lectures are given in which use is made of lecture-room apparatus. All important phenomena are illustrated and experimental demonstrations of the principal laws are presented.

26. **Mechanics and Heat.** First term, Junior year.

27. **Electricity and Magnetism.** Second term, Junior year.

28. **Acoustics and Optics.** Third term, Junior year.

29-31. **Advanced Physics.** The course extends throughout the year and assumes that the student has completed courses 26-28 or the equivalent. Instruction is given chiefly in the Laboratory. Students are instructed in the use of instruments of precision employed in Mechanics, Heat, Light, Electricity, and Magnetism. The work in the Laboratory is supplemented by written reports in which both general and theoretical results obtained are discussed. These reports afford the basis for criticism of the work. The work must be pursued in such order as the appointments of the Laboratory may require.

The subject of Electricity and Magnetism will occupy about two-thirds of the year. For this work the laboratory is supplied with instruments of precision, such as the Thomson Reflecting Astatic Galvanometer, Helmholtz, D'Arsonval, and Ballistic Galvanometers, Standard Cells, Condensers, and Resistance, Weston instruments, etc. Two 50-kilowatt, Thomson-Ryan Dynamos, 125 volts, at the University lighting plant and a 2-kilowatt 110-volt machine are available for study. The equipment is increased as the need requires.

(1) **Mechanics.** Problems of engineering will receive special attention. The work will include experiments in statics, principle of moments, calibration of capillary tubes, testing levels, etc.

(2) **Heat.** Calorimetry and Thermo-dynamics of the steam engine will form the basis of the work.

(3) **Light.** The student will be instructed in the use of the spectrometer, spectroscope, interferometer, and the photometer.

(4) **Electricity and Magnetism.**

(a) Measurement of Current, Electro-motive Force, and Resistance. Determination of constants of galvanometers.

(b) Study of Primary and Secondary Batteries and Standard Cells.

(c) Tests, and calibration of commercial instruments.

(d) Experimental study of dynamo machines, including tests of efficiency.

(e) The Transmission of Intelligence.

32. Strength of Materials. Tensile, compressive, shearing, and cross-bending stresses are considered; methods of testing materials of construction are outlined, and problems in the design of wooden and steel beams, girders, footings, beams, roof trusses, etc., are worked out. First term. Junior Engineering, five hours.

33. Masonry and Foundations. The materials of masonry construction and their preparation and use receive attention; this is followed by a study of foundations—ordinary, pile, and under water. Under masonry structures are treated: masonry dams, retaining walls, bridge abutments and piers, culverts, and masonry arches. Second term, Junior Civil Engineering, five hours.

34-36. Bridges and Buildings. The first term is devoted to Graphical Statics, problems being worked out daily in the drafting room. The work of the second term consists in the determination of stresses in framed structures by means of graphic and algebraic methods. The third term is spent in the calculation and designing of some framed structure and the preparation of the drawings for the same. Senior Civil Engineering, three terms, five hours.

37. Roads and Pavements. The economic location and design of streets and pavements are considered along with the questions of street drainage and foundations for roads and pavements. Comparisons are made between earth, gravel, broken stone, shell, plank, and burned clay roads, and also between asphalt, brick, stone block, and wooden block pavements. Equestrian roads, race tracks, bicycle paths, and sidewalks receive attention. First term, Junior Civil Engineering, five hours.

38. Hydraulics and Hydraulic Motors. This course includes the theory of Hydrostatics and Hydraulics, the flow of water over weirs, through orifices and tubes, and in pipes, canals, and rivers;

the measurement of water-power; water wheels and turbines. Senior Engineering, second term, four hours.

39. Water Supply and Sanitary Engineering. Under the head of the collection and storage of water are taken up quantity of water required, rainfall, flow of streams, storage and evaporation of water, supplying capacity of water sheds, springs, and wells. The flow of water in streams, pipes, and channels is discussed, as also the practical construction of water works. A study is made of the various methods of sewage disposal. Third term, Junior Engineering, five hours.

40. Contracts. In this course will be given the principles of Common Law as applied to contracts. Third term, Senior Engineering, one hour.

41. Electrical Measurements. Lectures, recitations, and laboratory work. Juniors, Electrical Engineering, first term, five hours.

42. Direct Current Machinery. Lectures, recitations, and laboratory work. Juniors, Electrical Engineering, second term, five hours.

43. Alternating Current Generators, Transformers, and Motors. Lectures, recitations, and laboratory work. Juniors, Electrical Engineering, third term, five hours.

44. Design of Electrical Machinery. Lectures, recitations, drawings, and shop-work. Seniors, Electrical Engineering, first and second terms, five hours.

45. Generating Stations and Sub-stations, Distribution of Electricity, Storage Batteries. Lectures, recitations, and laboratory work. Seniors, Electrical Engineering, first term, five hours.

46. Telegraph, Telephone, Railway Signal and Related Apparatus. Lectures, recitations, and laboratory work. Seniors, Electrical Engineering, second term, five hours.

47. Electric Lighting, Construction, Wiring, and Economics. Seniors, Electrical Engineering, third term, five hours.

48. Electric Railways, Construction, Operation, and Economics. Seniors, Electrical Engineering, third term, five hours.

49. Boilers, Steam Engines, Valve Gears, and Governors. Juniors, Electrical Engineering, third term, five hours.

50. **Machine Design, Machine Tools.** Lectures, recitations, drawing. Juniors, Electrical Engineering, first and second terms, one hour.

51. **Gas, Air, and Oil Engines,** Juniors, Electrical Engineering, third term, one hour.

XII. DEPARTMENT OF CHEMISTRY.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.

GEORGE STEPHEN TILLEY, A. M., INSTRUCTOR.

JOHN CLYDE HOSTETTER, ASSISTANT.

The courses in Chemistry are designed to give a comprehensive view of the field covered by chemical investigation and to train the student in the various methods of chemical research. The courses as a whole are offered to those who expect to teach chemistry or enter the testing or industrial laboratory. As chemistry is at the foundation of the natural sciences, the first courses are essential to the study of science and medicine, and are important for general culture.

1. **Descriptive Chemistry.** Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the non-metallic elements and their compounds. First term.

2. **Descriptive Chemistry.** Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the metallic elements and their compounds. Second term.

3. **Qualitative Analysis.** In the first part of the term chemical reactions are studied in the laboratory, class-room, and text-book, after which fifty compounds, mixtures, and industrial products are determined. Each student reports individually and is questioned on the methods of determination. Twelve hours laboratory work a week required. Third term, prerequisite courses 1 and 2.

4, 5, 6. **Quantitative Analysis.** This course, extending through the year, aims to acquaint the student with the methods of analysis used in different chemical determinations.

(1) In the first term, Gravimetric methods are studied and pure inorganic preparations made.

(2) In the second term, Volumetric methods are studied.

(3) In the third term, Fire and Gas analysis are taken up.

Chemical theories are studied throughout the year. Laboratory work, nine hours a week. Prerequisites, courses 1, 2, and 3.

7. Organic Chemistry. Prerequisites, courses 1, 2, and 3. First term, five hours a week. Laboratory work, six to eight hours a week.

Hydrocarbons of the methane, olefine, and acetylene series and their most important derivatives are studied. In the laboratory, after preliminary exercises to train in technique, each student makes a number of pure organic substances belonging to the compounds studied.

8. Organic Chemistry (Continued). Second term, five hours a week. Prerequisite, Course 7. Aromatic hydrocarbons and derivatives are studied. In the laboratory a number of substances are made, and practice in ultimate organic analysis is given. From six to eight hours a week should be devoted to laboratory work, at times convenient to the student.

9. Organic Chemistry (Continued). Third term, five hours a week. Laboratory work, six to eight hours a week. Polycyclic and heterocyclic compounds related both to aliphatic and aromatic compounds are studied. In the laboratory, syntheses and analyses of comparative difficulty are performed, and some study of organic reactions is made.

10. Physical Chemistry. First term, five hours a week. Laboratory work, six hours a week. Prerequisites, courses 1, 2, 3, 4, 5, 6, mechanics and physics.

A study is made, during the two terms of the courses, of gases and the gas laws; of the properties of liquids and solids so far as of interest to the chemist; of solutions; of balanced actions; the phase rule, and particular cases of homogeneous and heterogeneous equilibrium.

11. Physical Chemistry. Second term, five hours a week. Course 10 is continued and the theoretical part of electro-chemistry begun. Laboratory work, six hours a week. The laboratory work during the two terms will include the more important physico-chemical measurements, such as determination of heats of reaction, of specific gravities, of molecular weights, of velocities of reaction, and others.

12. Physical Chemistry. Third term, five hours a week. Laboratory work, six hours a week. Prerequisite, physical chemistry.

The theoretical consideration of electro-chemistry is continued and technical subjects are studied, including electrolytic analysis of metals and some electrosynthetic methods.

The laboratory work will be designed to illustrate the subjects studied and give practice in electro-chemical technique.

13. Toxicology and Urinalysis. Poisons and their separation from organic matter are studied during the first part of the term. During the second part analysis of urine and of food adulteration is studied. Laboratory work, ten hours a week. Prerequisites, courses 1, 2, and 3.

14. Metallurgy. The manufacture and properties of iron and steel are studied and the influence of carbon, silicon, phosphorus, sulphur and other elements. Laboratory work consists in determining these elements and studying the structure under the microscope. Laboratory work, eight hours a week. Prerequisites, courses 1, 2, and 3.

15. Agricultural Chemistry. The chemistry of plants and fertilizers is studied. Fertilizer and food analysis is practiced in the laboratory six hours a week. This course covers the legal requirements for teachers of Pennsylvania high schools. Prerequisites, courses 1, 2, and 3.

16. German Chemical Literature.—One hour a week, throughout the year. Prerequisite, at least two terms of German, and courses 1, 2, and 3 in chemistry.

Selections from standard German text-books and periodicals are read, and study is made of the derivation and formation of scientific words.

17. Physical Chemistry. Mathematical topics.

18. Organic Research.

19. History of Chemistry.

XIII. DEPARTMENT OF ORGANIC SCIENCE.

GEORGE G. GROFF, M. D., LL. D., PROFESSOR.

NELSON FITHIAN DAVIS, SC. D., PROFESSOR OF BIOLOGY.

PHAREZ GROSS HESS, A. B., INSTRUCTOR.

It is the constant aim in this department to teach how to interpret nature. The student is guided in his investigations by lectures and laboratory manuals.

Courses 1, 2, 4, 5, 6, 15, 17, 19, 20, and 22 are given by Professor Groff.

Courses 3, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, and 21 are given by Professor Davis.

1. Animal Physiology. The aim of this course is to acquaint the student with the elementary facts concerning the functions of the human body. The work consists of lectures and readings from text-books on Physiology. The course was intended for those who wish a general knowledge of Physiology.

2. Neurology. Recitations, lectures, and laboratory work. The course is intended to give the general anatomy and histology of the Nervous System such as is required for those preparing for Medicine. Prerequisite, course 1 and General Chemistry.

3. Experimental Physiology. Lectures and experiments to illustrate the functions of the organs of the animal body.

4. Sanitary Science. Lectures, one hour a week.

5. Human Osteology and Comparative Anatomy. Recitations and dissections. In this course the student makes a systematic study of the human skeleton. The structure of the composite bones is compared to those of other vertebrates.

6. Human Anatomy. Lectures, recitations and dissections. The student has an opportunity to make a complete dissection of the human body. The work is largely independent. Models and text-books are used as guides.

7. Normal Histology. Recitations and lectures, and laboratory work. In this course the student makes a thorough study of the microscopic structure of the cell and elementary tissues, followed by the study of the various organs of mammals. In the laboratory work the students prepare specimens by the various methods in fixing, hardening, staining and sectioning.

8. Embryology. Recitations, lectures, and laboratory work. This course is important because it gives a key to the interpretation of the structure and relationship of the parts of the animal body and because it investigates the development of the individual. It includes the early development of amphibians, birds and mammals.

9. Biology. Recitations and dissections. The aim of this course is to meet the needs of general education in this subject,

and at the same time makes clear the fundamental principles, scope, method, history, and subdivisions of Biology and its relation to other sciences.

10. Invertebrate Zoölogy. Recitations and dissections. This course succeeds the course in Biology. It takes up the study and dissection of representatives of the invertebrate groups, including their life, histories, habits and distribution.

11. Vertebrate Zoölogy. Recitations and dissections. This is a continuation of course 10. It completes a general survey of the animal kingdom, special attention being given by each student to dissections, anatomy, life histories, and habits of the various groups.

12. Entomology. Recitations and laboratory work. In this course each student makes a thorough study of the dissection, life history, and habits of insects representative of the different orders. Special attention is given to the economical importance and relation of insects to agriculture.

13. Organic Evolution. Minor course. Lectures and discussions. The evolution of the vertebrates is traced in detail and much time is given to the relation of evolution to religious thought.

14. Heredity. Minor course. The lectures and reports deal with the principal facts and problems of variation and heredity and are supplemented by collateral readings.

15. Phænogamic Botany. Recitations, lectures, and field work. This is a general course including the anatomy of the representative types and their relation to the environment; a study is made of the local flora.

16. Cryptogamic Botany. Recitations, lectures, and field work. This includes a general introduction to Botany, taking up the study of at least one plant from each of the groups, and working out their life histories. The laboratory work and lectures develop the subject from the evolutionary standpoint.

17. Elements of Forestry. A lecture course covering the factors that control and regulate the development of our forests.

18. Bacteriology. Recitations, lectures, and laboratory work. The laboratory work includes the practice of the essential bacteriological methods. Much time is given to the study of bacteria found in water and in milk.

19. **Mineralogy and Geology.** Recitations, lectures, and laboratory work." A general course intended to give the leading facts and principles of Geology and the more important events in the Geological history of the earth. The development of the North American continent is studied in detail.

20. **Economic Geology.** Recitations, lectures, and laboratory work.

21. **German Biological Literature.** Junior year, one hour.

MEDICAL PREPARATORY DEPARTMENT.

WILLIAM LEISER, M. D.,
LECTURER ON DIAGNOSIS

WEBER L. GERHART, M. D.,
LECTURER ON ANATOMY.

CHARLES ALEXANDER GUNDY, M. D.,
LECTURER ON SURGERY.

GEORGE G. GROFF, M. D., LL. D.,
PROFESSOR OF ANATOMY AND PHYSIOLOGY.

NELSON FITHIAN DAVIS, SC. D.,
PROFESSOR OF BIOLOGY.

WILLIAM GUNDY OWENS, A. M.,
PROFESSOR OF CHEMISTRY.

For the present Bucknell University does not offer a full course of medical study nor confer degrees in medicine; but offers the preparatory studies and most of the non-clinical studies of the first two years of the courses required in the Medical Colleges. The student can select from the medical subjects offered at Bucknell University such as will be required for advanced standing in the Medical College in which he may wish to complete his studies for the degree in medicine, and if his standing in such subject averages not less than nine, he will receive from the Department of Medicine in Bucknell University a Certificate of proficiency in those subjects and in such other subjects related to medical studies as he may have completed at Bucknell. These subjects are open only to students in the college of Liberal Arts, and the Certificate of proficiency is given to students only upon graduation, and in addition to the Diploma of the College of Liberal Arts.

1. **Animal Physiology.** Recitations, lectures, and laboratory work. Second term, Experimental Physiology. Third term.

2. **Experimental Psychology.** Recitations, lectures, and experiments.

3. **Neurology.** Recitations, lectures, and laboratory work.

4. **Physiological Psychology.** Recitations, lectures, and experiments.

5. **Pathology.** Recitations, lectures, and autopsies.

6. **Sanitary Science.** Recitations and lectures.

7. **Human Osteology and Comparative Anatomy.** Recitations and dissection.

8a. **Human Anatomy.** Recitations and dissection of human body.

8b. **Human Anatomy.** Recitations and dissection of human body.

9. **Normal Histology.** Recitations, lectures, and laboratory work.

10. **Embryology.** Recitations, lectures, and laboratory work.

11. **Biology.** Recitations and dissections.

12. **Invertebrate Zoölogy.** Recitations and dissections.

13. **Vertebrate Zoölogy.** Recitations and dissections.

14. **Phænogamic Botany.** Recitations, lectures, and field work.

15. **Cryptogamic Botany.** Recitations, lectures, and field work.

16. **Bacteriology.** Recitations, lectures, and laboratory work.

17. **Materia Medica.** Chemical preparations.

18. **Descriptive Chemistry.** Recitations and laboratory work.

19. **Analytical Chemistry.** Recitations and laboratory work.

20. **Quantitative Analysis.** Recitations and laboratory work.

21. **Toxicological and Urine Analysis.**

22. **Physiological Chemistry.** This course includes such chemical determinations as are of special importance to medical students.

THE BIOLOGICAL LABORATORY.

The Biological Laboratory is equipped with apparatus for carrying on work in the Organic Sciences. A large room has been fitted up especially for Microscopic work with equipments for fifteen students. Each student has a separate desk containing a microscope and the necessary reagents. The Laboratory is also supplied with collecting and bacteriological apparatus, with books of reference, and other appliances necessary for carrying on Biological research. Those taking Microscopy have the use of microtomes, incubators, reagents, etc. New apparatus is added as occasion demands. The work in Zoölogy is illustrated by marine and fresh-water forms, skeletons, and mounted specimens. In comparative Anatomy and Osteology the work is illustrated by skeletons representing different types of vertebrates. Physiology is illustrated with human skeletons, a life-size French manikin, prepared tissue, and numerous charts. Material for Human Anatomy is received from the State Anatomical Board in Philadelphia, and each student has the opportunity to dissect the whole human body. The work in Materia Medica is illustrated by specimens of crude drugs. The student in Histology and Embryology has a good supply of paraffin and collodion blocks. The work is illustrated with microscopic slides, alcoholic material, and French wax models. Each student is provided with dissecting instruments.

THE MUSEUM.

Curator: PROFESSOR NELSON FITHIAN DAVIS, SC. D.

The University possesses good collections of illustrative material in Botany, Zoölogy, Histology, Geology, Mineralogy, and Materia Medica. Parts of these collections are kept in the laboratories and used in class-room work.

Since the erection of the Carnegie Library two large rooms in this building have been set aside as a museum, and during the year the principal collections will be transferred from the Main college to these rooms. A special effort is being made to secure additions to the museum and objects will be thankfully received, especially such as can be used in laboratory work. Among these may be mentioned: marine and fresh-water forms of life; insects; skeletons of vertebrates; birds and mammals; botanical specimens; crystallized minerals and rocks.

A large collection now owned by the University consists of minerals and rocks, fossils, and Indian relics. It is especially

desired to secure collections to illustrate the geology, minerals, flora, and fauna of Pennsylvania. Recently attention has been given to increasing the collection of Pennsylvania birds, and it is hoped that within a short time the University may possess a good series of mammals also.

During the past year contributions have been received from the following: Charles C. Shorkley, G. N. Wilkinson, J. W. Weddle, G. S. Perez, J. S. Davis, Professor G. G. Groff, the class in Entomology, A. W. Owens, James R. Bailey, H. N. Cole, A. S. Kech, W. L. Noll, Elsie Owens, and M. F. Goldsmith.

THE LIBRARIES AND READING ROOMS.

Librarian: PROFESSOR WILLIAM E. MARTIN, A. M.

Assistants: EDWIN R. MANCHESTER AND FRANCES E. WILLIAMS.

The College Library. The general library contains about twenty-six thousand volumes, besides many thousand pamphlets. The reading-room is connected with the library, and offers facilities for reading, studying, and writing. During term-time both are open forenoon and afternoon of each day, Sundays and holidays excepted, and both are maintained without extra charge to students. Students in all departments have free access to the shelves, and may draw two books at one time and retain them for two weeks, with the privilege of one renewal, if desired.

For greater convenience of instructors and students, collections of special technical books are also kept in the Laboratories of the Physical and Organic Sciences, and in the Astronomical Observatory.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in class-room work. In this way, while answering the purpose of general culture, it supplements in great measure the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education.

The Carnegie building for the accommodation of the library was erected in 1905, the gift of Hon. Andrew Carnegie, D. C. L.

By aid of the Card Catalogue and Pool's Index to Periodicals, all the resources of the library on any given subject are at once available.

Gifts to the library of money and of books will be thankfully acknowledged by the librarian.

GENERAL COLLEGE ORDERS.

ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examination on the studies gone over by the class, during a student's absence, will be especially searching, and a high degree of attainment will be required. When a student is absent more than one fourth of the term for any reason, he is required to stand private examination in addition to the examination required of the class. One who is absent during the entire term must also necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitation of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in permanent books, and constitutes the basis for determining the standing of the student during his connection with the institution. Unexcused absences from recitations are counted as zero in making up the weekly averages. *Excused* absences have half the effect in lowering a student's standing as unexcused absences, but a student may, at the option of the professor do supplementary work to obviate the effect upon his standing of excused absences. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance, and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7; nor is any student recommended to the Board of Trustees for graduation in the general courses if his average standing during either his Freshman or Sophomore year is below 8; or if in his Junior year it is below 8.5; or if in his Senior year it is below 9.

The passing grade for graduate students is 9. No one will be recommended for graduation in the Courses of Jurisprudence, Biology, Chemistry, and in Civil Engineering, nor be granted a certificate in the Law or Medical studies, if his average is below 9.

Conditioned students are not recommended to the Board of Trustees for promotion. Students conditioned on entrance must discharge such conditions within the first year thereafter.

If the student has failed in the studies of a term, he will not be permitted to enter upon the studies of a subsequent term until he has passed in the subjects in which he failed, unless a postponement of examination to a definite time is granted by the Faculty.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude*; students who attain an average of 9.2 or more are graduated *magna cum laude*; those who attain an average of 9 or more are graduated *cum laude*.

EXAMINATIONS.

The dates of the examination are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint, but in no case is an examination granted a student in advance of the time appointed for the examination of the class.

Unless for very good reasons to the contrary, a student who is granted a special examination will be required to pay a fee therefor.

PUBLIC WORSHIP.

The College duties of each day are opened with religious services at Bucknell Hall, which all the students of the College are required to attend. Way of Life Meetings under the charge of the President are held every Sunday afternoon in Bucknell Hall, when addresses upon religious and moral topics are presented.

Attendance upon public worship in some church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, when a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon and evening services are held in Bucknell Hall, attendance upon which is advised, but not required.

GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These laws must be observed, not only in their letter, but in their spirit. The atmosphere of the institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the institution.

PRESIDENT'S OFFICE HOURS.

The President of the University is in his office in the Main College building, every Tuesday, from 9.30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

OFFICE HOURS FOR THE COLLEGE WOMEN.

The Dean of the Women's Department will meet in his office College women who may desire advice or assistance from him.

VOLUNTARY SOCIETIES.

The Young Men's Christian Association is formed of students of the College. It receives religious periodicals and corresponds with kindred societies. A hall has been appropriated to the Society, and has been suitably furnished for religious meetings.

The Young Women's Christian Association, a voluntary society open to the officers and students of the College and Institute, meets weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes and College Settlement work are in charge of this Association.

Euepia; Theta Alpha. These are the two Literary Societies of the College for men. They hold meetings for Orations, Essays, and Debates. Each Society has a convenient hall, and by an arrangement of the Faculty will always have a nearly equal number of members.

The Zeta Literary Society is composed of young women admitted to any of the Courses in the College.

The Students' Publication Association is an organization which has in charge the issuing of the *Bucknell Mirror*. This periodical appears monthly during the collegiate year. The same Association publishes the *Commencement News* daily during Commencement week.

Another association of students publishes, weekly, during the school year, the *Orange and Blue*.

The Athletic Association of the college has been formed to encourage and regulate athletic sports. Considerable liberty is allowed the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without having secured the consent of the Faculty.

No student who is deficient in rhetorical or class-room work in any term shall be eligible to the office of manager or director in any student organization, or to be a member of any exhibiting organization, or of any contesting athletic team, or of any publishing or editing board during any subsequent term until such deficiency is made up.

HEALTH AND PHYSICAL CULTURE.

GEORGE W. HOSKINS, PHYSICAL DIRECTOR.

The Tustin Gymnasium has been provided for the physical training and development of young men. Young women have opportunity for physical training in the Gymnasium of the institute. These are now provided with the apparatus usually found in well-furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercise as may be required for his physical development. Regular exercise in the Gymnasium is required of all students during the winter term.

AIDS AND HONORS.

PRIZES.

The prizes are awarded to the persons who in the judgment of the several committees attain the highest degree of excellence among the respective competitors, but no prize is bestowed unless a high degree of merit has been attained by the person receiving it.

THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, is awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training at Bucknell Academy.

The prize for 1906 was awarded to Charles Stilwell Roush.

THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize for 1906 was awarded to Doncaster G. Humm.

THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1906 was awarded to Charles L. Bromley.

DECLAMATION PRIZES FOR WOMEN.

Prizes for the best declamation, open for competition to the Sophomore and Freshman Classes, were awarded in 1906 respectively to Jennie Hopwood and Mary F. Burgess.

THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded in 1906 to George A. Riggs.

The corresponding prize for Women was awarded in 1906 to Helena Olds.

THE JUNIOR DEBATE PRIZE.

Prizes are awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The first prize was awarded in 1906 to Havard Griffith; the second to Charles E. Brockway.

THE HOLLOPETER PRIZE.

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

The prize was awarded in 1906 to Robert B. Leighou.

THE HERBERT TUSTIN PRIZE.

In memory of his deceased son, the late Professor Francis Wayland Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in college shall have been without exception."

The first prize was awarded in 1906 to William E. DeMelt; and the second to Genus E. Bartlett.

THE HERBERT GOODMAN BARROWS PRIZE.

In memory of his son, the Reverend William Barrows, A. M., of the Class of 1867, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT GOODMAN BARROWS PRIZE FUND, the interest of which is to be forever paid annually as two prizes of equal amounts to the student or two students of the Senior Class who shall have attained the highest standing, respectively, in the Latin and in the Greek language and literature (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The prize for excellence in Greek was awarded in 1906 to Mary Montfort Moll; the prize for excellence in Latin was awarded in 1906 to Florence Jeannette Cobb.

THE JOHN SPRAGUE PRIZE.

The Reverend Thomas Harry Sprague, Ph. B., of the Class of 1897, offers an annual prize to the student who excels in the courses in the English Bible, to be named in memory of his father, THE JOHN SPRAGUE ENGLISH BIBLE PRIZE.

The prize was awarded in 1906 to Mary Montfort Moll.

THE CHAPLAIN J. J. KANE PRIZE.

The Reverend James J. Kane, A. M., Chaplain of the United States Navy, and a graduate from the Theological Department of this University, of the Class of 1867, has established a prize which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded in 1906 to Genus E. Bartlett.

THE ANNA MOORE HARE PRIZE.

In memory of his daughter, Anna Moore Hare, the Reverend Calvin Aurand Hare, A. M., has established an annual prize in Logic, to be awarded to that student at graduation who shall have done the best work in Logic, regard being had both to the amount and the quality of the work.

SCHOLARSHIPS.

I. THE BUCKNELL SCHOLARSHIPS.

The William Bucknell Scholarships, twenty in number and of \$1,000 each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in life. The income from this fund is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor Rockwood.

II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

III. THE LIVINGSTON SCHOLARSHIPS.

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the Ministry.

IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of O. W. Longan, Esq., is available for a student for the Ministry from Lycoming County, Pennsylvania.

V. THE LEWIS E. JONES SCHOLARSHIP.

Was established from a legacy of the late Lewis E. Jones, and is available for students of Welsh descent to the amount of the income from five hundred dollars.

VI. THE JOHN HOWARD HARE SCHOLARSHIP.

Established by the Reverend Calvin Aurand Hare, A. M., in memory of his son, John Howard Hare, available for a student for

the ministry upon recommendation of the Pennsylvania Baptist Education Society and the President of the University.

VII. THE MEDICO-CHIRURGICAL SCHOLARSHIP.

The Medico-Chirurgical Medical College of Philadelphia offers a scholarship covering tuition in that College to the student from Bucknell University who evinces the best preparation and aptitude for medical work.

VIII. THE PHILADELPHIA ALUMNÆ SCHOLARSHIP.

This scholarship, founded by the Philadelphia Alumnæ Club, is available for a young woman student from Philadelphia.

IX. THE GENERAL MILLER SCHOLARSHIPS.

Ten scholarships have been established by Major-General Charles Miller, A. M., to be awarded to worthy members of the graduating class.

X. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending college. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

EXTRA STUDIES.

In order to promote special scholarship in the several departments of study the following provision has been made:

1. Any student who has obtained an average of 9 in the studies of the previous term may take special work in any department of the College under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of 9 in all the studies of the current term, and pass a satisfactory examination in the voluntary study, the work shall be credited to him in the Annual Catalogue of the College.

4. Only one such study shall be pursued by any one student during any one term. A student may also take two minor studies in the Summer vacation.

5. The Professor with whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations at the Professor's option.

6. The amount and quality of this extra work shall be taken into account in awarding honors at graduation, but is not counted for the Bachelor's degree.

EXPENSES.

The College charges amount to \$100 per annum, for those who room in the College buildings, and \$90 for those who room in the town. The College charges include library fee, gymnasium fee, and other incidental fees common to all students, as well as tuition. Tuition is rated at \$50 per annum, and is included in the College charges. Students in the course in Civil or Electrical Engineering are charged \$5 per term extra. Students in the other courses who take an engineering subject are charged the same rates as students in engineering. This charge is for the regular work; when a fourth study or honor study is taken, an extra charge is made. Graduation fee and diploma, \$10. Masters' Degree and Diploma, \$10.

The Study Rooms in the Main College are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled.

An extra charge is made for electric lighting of private rooms.

An extra charge ranging from \$5 to \$10 per term is also charged for rooms in the West College.

An additional charge is made for rooms cared for by the Institution.

Young men in the Collegiate Department, who so desire, can have furnished rooms in the West College, with board in the Academy.

Young women in the Collegiate Department room and board in the Women's College. The standard annual charge for board,

tuition, furnished room, heating, lighting, is \$265. An extra charge for choice rooms in the Bucknell Cottage and in New Cottage, ranging from \$5 to \$10 per term, is made.

The assignment of rooms is for one year, and is made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens. A deposit of \$10 is required when a room is chosen. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

In the Laboratories students pay for chemicals used and for apparatus broken or damaged. In the chemical laboratory \$5 per term is charged for gas, water, and general chemicals for each course, except Courses 1 and 2, for which the charge is \$2.50. A deposit of \$5 per course is required to cover breakage and cost of extra chemicals.

A small fee is charged also in each of the elective courses in the departments of Mechanics and of Organic Science and in Surveying and Engineering, for the use of instruments and for material used.

Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

Students can board in clubs at a cost of from \$2.00 to \$2.50 per week. Boarding can be obtained in private families at \$3.00 or \$4.00 per week, or at the table of the Bucknell Academy at \$3.00 per week. Washing is done at 25 cents per week. No self-boarding is allowed in the College buildings.

FIFTY-SIXTH ANNUAL COMMENCEMENT.

WEDNESDAY, JUNE 22, 1906.

HONORS AT GRADUATION.

ORATIONS SUMMA CUM LAUDE.

ELBINA LAVINIA BENDER,	WILLIAM EUGENE DEMELT,
JOSEPH LEIGHTON CHALLIS,	MARY MONTFORT MOLL,
FLORENCE JEANNETTE COBB,	HUGO BRUNO GUIDO RIEMER,
EDWIN WARREN RUMSEY.	

ORATIONS MAGNA CUM LAUDE.

FLORENCE LOUISE BACON,	AUGUSTUS SHERIDAN KECH,
GENUS EBERT BARTLETT,	CHARLES AARON KNUPP,
AMOS ETHAN BARTON,	EDITH E. LANE,
ELBERT LITTLE BLAKESLEE,	ROBERT BENJAMIN LEIGHOU,
HAROLD NEWTON COLE,	HELEN ELIZABETH RICKABAUGH,
HARVEY O. DIETRICH,	SILAS HOWARD SCHOCH,
BENAJAH JACK GARDNER,	DICKSON SHAW STAUFFER,
MAURICE FRANK GOLDSMITH,	MILES TIMLIN,
SARAH ELLA UNGER.	

ORATIONS CUM LAUDE.

NORMAN EUGENE BLISS,	HAZEL LOUISE KNAPP,
LINN CLARK DRAKE,	KATHERINE EMMA MACCART,
FRED VORIS FOLLMER,	CARRIE MAY MCCASKIE,
SARA CYRENA FURMAN,	GRACE LENORE MEEK,
ROMAINE HASSRICK,	HENRY TAYLOR MEYER,
LEROY W. HOON,	BENJAMIN EARL PHILLIPS,
HENRY JONES,	JAMES LEIGH SHIELDS,
FRANK LANDIS YOST.	

ORATIONS.

JAMES RILEY BAILEY,	CLAY MONTGOMERY McCORMICK,
EDWIN ANTHONY BEAVER,	CATHERINE FRAZER MacLAGGAN,
BURLEIGH CLAYPOOL,	CARL LYON MILLWARD,
CLARENCE BURNAP COMSTOCK,	JAMES THEODORE PARK,
WILLIAM THOMAS COVERDALE,	HOMER DERIAL PEASE,
JOHN GROVER DEININGER,	THOMAS BENJAMIN POWELL,
WILLIAM L. DONEHOWER,	PENROSE HERR SHELLEY,
JOHN WALLACE GREENE,	HORACE JONES SHEPPARD,
ARMEL BOLTZ HEFFLING,	CHARLES CUSHMAN SHORKLEY,
JOHN FRANKLYN HENNESSY,	JOHN DANIEL PECK SMITHGALL,
CHARLES MCCALLUM HOWELL,	HARRY THOMAS STEVENSON,
EDWIN GILMORE JACK,	FRANK LATON STEWART,
WALTER JARRETT,	ABRAM PIERCE WALTZ,
JOSEPH CIPRIANO MACRO,	ATHOL VERNON WISE,
CARL SCHULTZ YINGLING.	

DEGREES CONFERRED ON EXAMINATION.

MASTER OF ARTS.

GEORGE RIPLEY BLISS,	ALBERT GEORGE KARGE,
ROY GRIER BOSTWICK,	SARAH ESTHER LEE,
ADELIA BURGART,	WALTER KREMER RHODES,
MANSFIED FRENCH FORBELL,	JAMES WILSON SNYDER,
CHARLES ELLSWORTH HANKEY,	BENJAMIN FRANKLIN WHITE,
JOHN ERB HUNSBERGER,	THOMAS WOOD,
WILLIAM D. ZERBY.	

MASTER OF SCIENCE.

GEORGE T. COOPER,	HAROLD EDWARD TIFFANY,
WILLIAM CAREY PURDY,	WALTER SAMUEL WILCOX,
CLYDE DALE WOLFE.	

BACHELOR OF ARTS.

GENUS EBERT BARTLETT,	NORMAN EUGENE BLISS,
AMOS ETHAN BARTON,	JOSEPH LINCOLN CHALLIS
ELBINA LAVINIA BENDER,	(Jurisprudence),

BACHELOR OF ARTS—Continued.

FLORENCE JEANNETTE COBB,	CATHERINE FRASER MCLAGGAN,
WILLIAM THOMAS COVERDALE,	HENRY TAYLOR MEYER,
JOHN GROVER DEININGER,	MARY MONTFORT MOLL,
HARVEY O. DIETRICH,	HOMER DERIAL PEASE,
LINN CLARKE DRAKE,	BENJAMIN EARLE PHILLIPS
FREDERICK VORIS FOLLMER	(Jurisprudence),
(Jurisprudence),	HUGO BRUNO CHARLES RIEMER,
MAURICE FRANK GOLDSMITH,	EDWIN WARREN RUMSEY,
JOHN WALLACE GREEN,	SILAS HOWARD SCHOCH
ROMAINE CALVIN HASSRICK,	(Jurisprudence),
EDWIN GILMORE JACK,	HORACE JONES SHEPPARD,
JOSEPH CIPRIANO MACRO,	JAMES LEIGH SHIELDS,
KATHERINE EMMA MACCART,	FRANK LATON STEWART,
CARRIE MAY MCCASKIE,	ABRAM PIERCE WALTZ,
CLAY MONTGOMERY MCCORMICK,	FRANK LANDIS YOST.

BACHELOR OF PHILOSOPHY.

FLORENCE LOUISE BACON,	ARMEL BOLTZ HEFFLING,
JAMES RILEY BAILEY,	HENRY JONES,
ELBERT LITTLE BLAKESLEE,	HAZEL LOUISE KNAPP,
BURLEIGH CLAYPOOL,	EDITH E. LANE,
HAROLD NEWTON COLE,	GRACE LENORE MEEK,
WILLIAM EUGENE DEMELT,	CARL LYON MILLWARD,
SARAH CYRENA FURMAN,	HELEN ELIZABETH RICKABAUGH,
	SARAH ELLA UNGER.

BACHELOR OF SCIENCE.

EDWIN ANTHONY BEAVER,	ROBERT BENJAMIN LEIGHOU,
CLARENCE BURNAP COMSTOCK,	JAMES THEODORE PARK,
WILLIAM LEISER DONEHOWER,	PENROSE HERR SHELLEY,
BENJAMIN JACK GARDNER,	CHARLES CUSHMAN SHORKLEY,
JOHN FRANKLIN HENNESSY,	JOHN PECK SMITHGALL,
LEROY W. HOON,	DICKSON SHAW STAUFFER,
CHARLES MCCOLLUM HOWELL,	HARRY THOMAS STEVENSON,
WALTER JARRETT,	MILES TIMLIN,
AUGUSTUS SHERIDAN KECH,	ATHOL VERNE WISE,
CHARLES AARON KNUPP	CARL SCHULTZ YINGLING.
(Chemistry),	

BACHELOR OF LETTERS.

GERTRUDE STANNERT,

MARGARET MALVINA WAGNER.

HONORARY DEGREES CONFERRED.

MASTER OF ARTS.

HARRY SAMUEL HOPPER,

EDWIN HENRY SIBLEY, A. B.,

EDWARD B. TUSTIN.

DOCTOR OF SCIENCE.

ARTHUR JOHN ROWLAND.

DOCTOR OF LETTERS.

EVERETT TITSWORTH TOMLINSON, PH. D.

DOCTOR OF DIVINITY.

THE REVEREND JOSEPH STINSON BROMLEY,

THE REVEREND THOMAS MIDGELY EASTWOOD, A. B., A. M.

COMMENCEMENT ADDRESSES.

Baccalaureate Sermon,	THE PRESIDENT
Sermon, Education Society,	WILLIAM M. WALKER, D. D.
Address before the Literary Societies.....	B. L. WHITMAN, LL. D.
Address before the Alumni Association,	
	RALPH C. H. CATTERALL, PH. D.
Poem before the Alumni Association,	FRANKLIN P. LYNCH, M. D.
Annual Address,	TALCOTT WILLIAMS, LL. D.
Address to the College Class,	THE PRESIDENT

TEACHERS' PERMANENT CERTIFICATES.

Awarded by the State of Pennsylvania to Graduates of Bucknell College, 1905-1906:—

JOHN HENRY EISENHAUER, A. B.

EDITH E. LANE, PH. B.

PHILIP REILLY, A. B.

JOHN DANIEL PECK SMITHGALL, SC. B.

MILES TIMLIN, SC. B.

IRVIN WILLINGTON ZIEGLER, SC. B.

BACCALAUREATE THESES.

1. The Problem of the Scarlet Letter,
FLORENCE LOUISE BACON.
2. Recapitulation Theory of Evolution,
JAMES RILEY BAILEY.
3. Mohammedanism as a Factor in the Civilization of Europe,
GENUS EBERT BARTLETT.
4. The Theism of Biology,
AMOS ETHAN BARTON.
5. Slavery and its Abolition,
EDWIN ANTHONY BEAVER.
6. The Optimism of Robert Browning,
ELBINA LAVINIA BENDER.
7. The Suppression of the Theaters,
ELBERT LITTLE BLAKESLEE.
8. The Development of the Iron Industry,
NORMAN EUGENE BLISS.
9. Law and Morality,
JOSEPH LEIGHTON CHALLIS.
10. The World's Conquerors,
BURLEIGH CLAYPOOL.
11. A Comparison of Schiller's "The Robbers" and "William Tell,"
FLORENCE JEANNETTE COBB.
12. Evolution of Consciousness,
HAROLD NEWTON COLE.
13. Education a Means of Assimilating the Foreign Element,
CLARENCE BURNAP COMSTOCK.
14. Is Cause and Effect a Category of the Understanding?
WILLIAM THOMAS COVERDALE.
15. Economic Liberty,
WILLIAM EUGENE DEMELT.
16. Sketch of the Characteristics and Life of William Rainey Harper,
JOHN GROVER DEININGER.
17. Moral and Literary Training in the Public Schools,
HARVEY O. DIETRICH.

18. Japan's Rise as a Nation; Primarily from an American Stand-
point,
WILLIAM L. DONEHOWER.
19. Modern Science and the Question of Heredity,
LINN CLARK DRAKE.
20. The Psychological Basis of Socialism,
FRED VORIS FOLLMER.
21. Hawthorne's Marble Faun,
SARA CYRENA FURMAN.
22. Branch Banking and Its Advantages,
BENAJAH JACK GARDNER.
23. The Scientific Method in Higher Education,
MAURICE FRANK GOLDSMITH.
24. The Transforming Effect of Christianity on Society,
JOHN WALLACE GREENE.
25. Assimilation of the Foreign Element in the United States,
ROMAINE HASSRICK.
26. Some Characteristic Traits of Alfred the Great,
ARMEL BOLTZ HEFFLING.
27. The Participation of the People in City Government,
JOHN FRANKLYN HENNESSY.
28. The Riddle Superstition,
LEROY W. HOON.
29. The Mineral Industries of the United States,
CHARLES MCCALLUM HOWELL, JR.
30. Production and Economic Value of Petroleum and Natural Gas,
EDWIN GILMORE JACK.
31. Optimism and Pessimism,
WALTER JARRETT.
32. Development of the Art of War,
HENRY JONES.
33. The Queen Ant as a Psychological Study,
AUGUSTUS SHERIDAN KECH.
34. Character of Tennyson,
HAZEL LOUISE KNAPP.
35. The Progress of Geology,
CHARLES AARON KNUPP.
36. Philosophy of the Autocrat of the Breakfast Table,
EDITH E. LANE.

37. Is Abiogenesis Impossible?
ROBERT BENJAMIN LEIGHOU.
38. Enquiry Concerning the Understanding,
JOSEPH CIPRIANO MACRO.
39. Mathematics,
KATHERINE EMMA MACCART.
40. The Panama Canal,
CARRIE MAY MCCASKIE.
41. The Development of the Law of England,
CLAY MONTGOMERY MCCORMICK.
42. The History of Philosophy,
KATHERINE FRASER MACLAGGAN.
43. The Genesis of Alexander and Results to the World of His
Conquests,
GRACE LENORE MEEK.
44. Thackeray as a Delineator of Human Nature,
HENRY TAYLOR MEYER.
45. The French Revolution,
CARL LYON MILLWARD.
46. Tennyson, the Interpreter of His Age,
MARY MONTFORT MOLL.
47. Some Pictures from Poems,
JAMES THEODORE PARK.
48. The Part of the Maccabean Family in the History of the Jews,
HOMER DERIAL PEASE.
49. Feudalism as a Social and Political Institution,
BENJAMIN EARL PHILLIPS.
50. The City as a Social Fact,
THOMAS BENJAMIN POWELL.
51. Schiller's Don Carlos,
HELEN ELIZABETH RICKABAUGH.
52. Medical Inspection of Immigrants,
HUGO BRUNO CHARLES RIEMER.
53. Characteristics and Effects of Monasticism in Europe,
EDWIN WARREN RUMSEY.
54. The Crime of Negro Suffrage,
SILAS HOWARD SCHOCH.
55. Municipal Ownership,
PENROSE HERR SHELLEY.

56. The French Huguenots in America,
HORACE JONES SHEPPARD.
57. The Japanese Problem in Korea,
JAMES LEIGH SHIELDS.
58. By-Product Manufacture of Coke in the Pocahontas Coal Field,
CHARLES CUSHMAN SHORKLEY.
59. Immigration, Past and Present,
JOHN DANIEL PECK SMITHGALL.
60. The Determination of Temperatures,
DICKSON SHAW STAUFFER.
61. The Poetry of Revolt in English Literature,
GERTRUDE STANNERT.
62. Police Administration,
HARRY THOMAS STEVENSON.
63. Reason in Animals,
FRANK LATON STEWART.
64. The Growth of Industry in the West,
MILES TIMLIN.
65. William Cullen Bryant as a Poet of Nature,
SARAH ELLA UNGER.
66. William Cullen Bryant: What Was His Message to Us, How
Did He Bring It,
ABRAM PIERCE WALTZ.
67. The Development of Shakespeare as a Dramatist,
MARGARET MALVINA WAGNER.
68. Trust Companies as Promoters of Industry,
ATHOL VERN WISE.
69. Kant,
CARL SHULTZ YINGLING.
70. Attention as a Process of Mental Elaboration,
FRANK LANDIS YOST.

THE ACADEMY.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

BENJAMIN F. THOMAS, A. M., PRINCIPAL.
LATIN.

MARTIN LINNAEUS DRUM, PH. B.,
MATHEMATICS.

PHARES GROSS HESS, A. B.,
SCIENCE AND GERMAN.

ANTHONY STEINHILPER, A. B.,
GREEK AND LATIN.

HENRY TAYLOR MEYER, A. B.,
ENGLISH.

JOSEPH LINCOLN CHALLIS, A. B.,
HISTORY.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR OF THE UNIVERSITY.

ACADEMY STUDENTS.

FOURTH FORM.

CLASSICAL COURSE.

NAME.	RESIDENCE.	ROOM.
CHARLES HUNTER HEACOCK,	<i>Turbotville.</i>	No. 5, Main Hall
GEORGE WILLIAM LAWRENCE,	<i>Pennington, N. J.</i>	No. 7, Main Hall
LE ROY MACFARLAND,	<i>Trenton, N. J.</i>	No. 11, East Hall
EVAN WELLING THOMAS,	<i>Lewisburg.</i>	East Market Street
EARL GLADSTONE WATKINS,	<i>Scranton.</i>	No. 12, Main Hall

SCIENTIFIC COURSE.

LUTHER STEELE CLARK,	<i>Hastings.</i>	No. 13, East Hall
HAROLD MCCLURE NEFF,	<i>Sunbury.</i>	Sunbury
WALTER DANIEL RHOADS,	<i>Allentown.</i>	No. 19, East Hall
PAUL DANIEL SCHREIBER,	<i>Allentown.</i>	No. 19, East Hall
LEON WILSON WATROUS,	<i>New York City.</i>	North Third Street

THIRD FORM.

CLASSICAL COURSE.

ARTHUR R. GERHART,	<i>Lewisburg.</i>	North Third Street
COLEMAN JOHN HARRIS,	<i>Lewisburg.</i>	University Avenue

NAME.	RESIDENCE.	ROOM.
JAMES PARDON HARRIS,	<i>Lewisburg.</i>	University Avenue
ROBERT RAY McCOMBS,	<i>McClellandtown.</i>	No. 9, East Hall
HAROLD WILLIAM MUSSER,	<i>Lewisburg.</i>	South Third Street
RALPH LAUGHTON RICHARDSON,	<i>Driftwood.</i>	No. 8, East Hall
LAWRENCE ZARRILLI,	<i>Trenton, N. J.</i>	No. 11, East Hall

SCIENTIFIC COURSE.

HAMILL B. ALEXANDER,	<i>Marietta.</i>	No. 14, East Hall
NEWTON LE ROY BOWES,	<i>Shamokin Dam.</i>	Shamokin Run
STANLEY QUAY BROWN,	<i>Rochester.</i>	No. 14, East Hall
FRIEDMAN HOLMES CATHRALL,	<i>West Pittston.</i>	North Second Street
NORRIS IRA CRAIG,	<i>Philadelphia.</i>	South First Street
CHARLES EDGAR DREHER,	<i>Paxinos.</i>	No. 21, East Hall
JOHN WALTER EVANS,	<i>Patton.</i>	No. 8, East Hall
JAMES ROBERT GEMMILL,	<i>Allenwood.</i>	No. 8, East Hall
CHARLES WAGNER GWINNER,	<i>St. Clair.</i>	No. 10, East Hall
DALE DAVIS HOLLENBAUGH,	<i>Lewisburg.</i>	South Fourth Street
LAWRENCE AMBROSE HENDERSON,	<i>Montgomery.</i>	Montgomery
ROY ALLEN LONG,	<i>Northumberland.</i>	Northumberland
JAMES DALLAS MARKS,	<i>Middleburg.</i>	No. 20, East Hall
CORTLANDT ROWLEY PROSSER,	<i>Barnesboro.</i>	No. 13, East Hall

NAME.	RESIDENCE.	ROOM.
LOUIS DAVID ROBERTS,	<i>Juniata.</i>	No. 4, Main Hall
NORMAN WILDWOOD RYAN,	<i>Wildwood, N. J.</i>	No. 15, East Hall
GILBERT SCHOCH,	<i>Lewisburg.</i>	South Second Street
CLINTON ELMER SITLER,	<i>Tamaqua.</i>	No. 7, Main Hall
PAUL LOWRY STEIN,	<i>Lewisburg.</i>	North Third Street
JOHN LESTER STRASSNER,	<i>Lewisburg, R. F. D.</i>	Lewisburg
ALEXANDER TRUITT, JR.,	<i>Punxsutawney.</i>	No. 23, East Hall
SYLVAN WOODS,	<i>Philadelphia.</i>	No. 23, East Hall

SECOND FORM.

GUSTAVO BERNARD,	<i>Havana, Cuba.</i>	No. 6, Main Hall
EARL MITCHELL BLOOM,	<i>Troy.</i>	No. 20, East Hall
JACOB EVANS BOYER,	<i>Linfield.</i>	No. 21, East Hall
JOHN WATSON CLARK,	<i>Glen Campbell.</i>	No. 18, East Hall
NORMAN ROBERT DAVIS,	<i>Allenwood.</i>	Allenwood
JAMES RISHEL FAIRCHILD,	<i>Lewisburg, R. F. D.</i>	Lewisburg
FREDERICK KNAPP GETZ,	<i>Lewisburg.</i>	North Fourth Street
GEORGE FREEMAN HAINES,	<i>Winfield.</i>	Winfield
FRANK RUSSELL HAMBLIN,	<i>Lewisburg.</i>	South Third Street
JAMES FOCHT MCCLURE,	<i>Lewisburg.</i>	University Avenue
JOHN MCCULLOCH,	<i>Eleanora.</i>	No. 10, Main Hall

NAME.	RESIDENCE.	ROOM.
LAWRENCE GROVER OPPENHEIMER,	<i>Bedford.</i>	No. 17, East Hall
LEO DE LANCEY PARRY,	<i>Girardville.</i>	No. 10, East Hall
HARRY GUNDY PAWLING,	<i>Bucknell.</i>	Bucknell
STERLING THOMAS POST,	<i>Dalton.</i>	No. 5, Main Hall
GEORGE ALLEN RHOADS,	<i>Shamokin Dam.</i>	Shamokin Dam
HAROLD AUGUSTUS SHAFFER,	<i>Lewisburg.</i>	South Second Street
BENJAMIN JOHN WEISMER,	<i>Wilkes-Barre.</i>	No. 22, East Hall
GUY ALLEN WENDT,	<i>Shamokin Dam.</i>	Shamokin Dam

FIRST FORM.

WILLIAM JACKSON FOLLMER,	<i>Lewisburg.</i>	Lewisburg
WALTER DEMPSTOR GEMMILL,	<i>Allenwood.</i>	Allenwood
WALTER WILLIAM HARRIS,	<i>Lewisburg.</i>	University Avenue
WALTER JOSEPH KIRSCHBAUM,	<i>Williamsport.</i>	No. 17, East Hall
JOSEPH HENRY OVARES,	<i>Havana, Cuba.</i>	No. 6, Main Hall
DILLINGER HIXON SHAFFER,	<i>Greensburg.</i>	No. 9, East Hall
HENRY WARREN VAN PELT,	<i>Lewisburg.</i>	South Third Street

STUDENTS PURSUING SELECT STUDIES.

CHARLES WEISER APP,	<i>Lewisburg.</i>	Market Street
WALTER WILLIAM ATKINSON,	<i>Lewisburg.</i>	North Seventh Street

NAME.	RESIDENCE.	ROOM.
CARL GARRISON BAKER,	<i>Selbyville, Del.</i>	No. 7, Main Hall
WILLIAM NEIL BAKER,	<i>Lewisburg.</i>	Lewisburg
FERNANDO BERRAYARZA,	<i>Cienfuegos, Cuba.</i>	South Fifth Street
MARIO BERRAYARZA,	<i>Cienfuegos, Cuba.</i>	South Fifth Street
PAUL IRVINE BLYLER,	<i>Winfield.</i>	Winfield
LA RUE EDGAR BROWN,	<i>Lewisburg, R. F. D.</i>	Lewisburg
CHARLES NORMAN BRUBAKER,	<i>Liverpool.</i>	No. 20, East Hall
LAWRENCE MERRILL BUTLER,	<i>Ashtola.</i>	No. 4, Main Hall
CHARLES POLLOCK CORSS,	<i>Lock Haven.</i>	No. 19, East Hall
BENJAMIN ASHBURY DONACHY,	<i>Lewisburg.</i>	South Fourth Street
IRA THOMAS FISS,	<i>Shamokin Dam.</i>	Shamokin Dam
CARLOS GANZALEZ,	<i>Chihuahua, Mexico.</i>	No. 17, East Hall
LESTER ABRAHAM HARRIS,	<i>Lewisburg.</i>	Market Street
CHARLES STETLER HOTTENSTEIN,	<i>Winfield.</i>	Winfield
HARRY SHANER HOFFMAN,	<i>Sunbury.</i>	Market Street
EDWARD DEAN KING,	<i>Barnesboro.</i>	No. 13, East Hall
HARRY RAY LOHMAN,	<i>Milton.</i>	Milton
NORMAN BLAIR MCANULTY,	<i>Barnesboro.</i>	No. 13, East Hall
PHILLIP FEOLETTE MERSHON,	<i>Lewisburg.</i>	South Third Street
BLAINE JAMES MORGAN,	<i>Robertsdale.</i>	No. 8, Main Hall
MILES OTTOMER NOLL,	<i>Lewisburg, R. F. D.</i>	Lewisburg

NAME.	RESIDENCE.	ROOM.
NESTOR LEWIS OVARES,	<i>Havana, Cuba.</i>	No. 11, East Hall
EDWARD ASHMUN PARSONS,	<i>Towanda.</i>	No. 8, Main Hall
WILLIAM EDWIN PARSONS,	<i>Montgomery.</i>	No. 5, West Wing
JOHN ROVIROSA,	<i>Puerto Principe, Cuba.</i>	South Fifth Street
FREDERICK RICHARD SCHERER,	<i>Scranton.</i>	Lewisburg
DANIEL ARTER STANLEY,	<i>Greensburg.</i>	No. 22, East Hall
ALFRED BROCKWAY TAPPAN,	<i>Merida, Yucatan, Mexico.</i>	No. 17, East Hall
ARTHUR STEWART WAHL,	<i>Reading.</i>	No. 12, Main Hall
CLARENCE EUGENE WITMER,	<i>Malta.</i>	No. 7, Main Hall

SUMMARY.

The Fourth Form, Classical	5
Scientific	5
	—10
The Third Form, Classical	7
Scientific	22
	—29
The Second Form	19
The First Form	7
Students Pursuing Select Studies	32
	—58
Total in the Academy	97

Students enrolled in other departments of the University who receive instruction in the Academy classes:

Greek of the Fourth Form	6
" Third Form	7
Latin of the Fourth Form	3
Second Form	4
	—20
	—
Total receiving instruction in Academy classes...	117

COURSES OF STUDY.

The Academy is designed to fit pupils for College, for Teaching, or for Business. It offers three Courses of Study.

I. The Classical Course extends through four years and is arranged to meet the requirements for admission to College. The Study of Latin begins with the First Form and continues for four years and two terms. The study of Greek begins with the Third Form and continues for two years and one term. Notwithstanding the time given to these branches of study, fully one half of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

I. The Latin Scientific Course extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and Scientific Courses are identical. In the Third and Fourth Forms, the students preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek division substitutes the Greek of the Third and Fourth Forms for the Latin and includes Historical and Scientific subjects.

III. The Scientific Course extends through four years and prepares for the Courses in General Science, in Biology, in Chemistry, and in Civil and Electrical Engineering in College. For the Vergil and the Cicero of the Latin Scientific Course, it substitutes one term of Advanced English, one term of Chemistry, and two years of German.

Students who are able to accomplish more work in the allotted time than is required by the Course may pursue honor work in the Classics by reading, under the instructor's direction, Cæsar's Civil War, Cicero's Letters, or Vergil's Eclogues, and Books IV, V, VI of the Iliad, or the Cyropædia.

Students will be admitted to the Form for which they are prepared.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific or the Latin Scientific Course well adapted to prepare them for teaching or for business.

Special classes in History and Literature are maintained to meet adequately the requirements of applicants for examination and registration as students at law, under the rules adopted by the Supreme Court of Pennsylvania.

CURRICULA

Arabic numerals indicate the number of recitations a week
in each subject.

I. THE CLASSICAL COURSE.

FIRST FORM.

- | | |
|-------------------------------------|----------------------------|
| I. TERM—Algebra, 5,
Latin, 5, | History, 5,
English, 5. |
| II. TERM—Algebra, 5,
Latin, 5, | English, 5,
Drawing, 5. |
| III. TERM—Geometry, 5,
Latin, 5, | History, 5,
English, 5. |

SECOND FORM.

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| I. TERM—Higher Arithmetic, 5,
Cæsar, Introduction, 5, | Ancient History, 5,
Rhetoric, 5. |
| II. TERM—
<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> { <div style="display: inline-block; vertical-align: middle;"> Book-keeping,
 Commercial Arithmetic, 5,
 Cæsar, 5, </div> </div> | Ancient History, 5,
Literature, 5. |
| III. TERM—Physical Geography, 5,
Cæsar, 5, | Ancient History, 5,
Literature, 5. |

THIRD FORM.

- | | |
|----------------------------------|----------------------------|
| I. TERM—Algebra, 5,
Cæsar, 5, | Greek, 5,
Elocution, 5. |
|----------------------------------|----------------------------|

- | | |
|-------------------------------------|--------------------------------|
| II. TERM—Algebra, 5,
Cæsar, 5, | Greek, 5,
Literature, 5. |
| III. TERM—Algebra, 5,
Cicero, 5, | Anabasis, 5,
Literature, 5. |

FOURTH FORM.

- | | |
|-------------------------------------|-----------------------------|
| I. TERM—Geometry, 5,
Vergil, 5, | Cicero, 5,
Anabasis, 5. |
| II. TERM—Geometry, 5,
Vergil, 5, | { Ovid, } 5,
{ Cicero, } |
| Iliad, 5. | |
| III. TERM—Physics, 5,
Vergil, 5, | Iliad, 5,
Anabasis, 5. |

II. THE LATIN SCIENTIFIC COURSE.**FIRST FORM.**

- | | |
|-------------------------------------|----------------------------|
| I. TERM—Algebra, 5,
Latin, 5, | History, 5,
English, 5. |
| II. TERM—Algebra, 5,
Latin, 5, | English, 5,
Drawing, 5. |
| III. TERM—Geometry, 5,
Latin, 5, | History, 5,
English, 5. |

SECOND FORM.

- | | |
|----------------------------------------------------------|-------------------------------------|
| I. TERM—Higher Arithmetic, 5,
Cæsar, Introduction, 5, | Ancient History, 5,
Rhetoric, 5. |
| II. TERM— | |
| { Book-keeping, | Ancient History, 5, |
| { Commercial Arithmetic, 5, | Literature, 5. |
| Cæsar, 5, | |

- III. TERM—Physical Geography, 5, Literature, 5,
Cæsar, 5, Ancient History, 5.

THIRD FORM.

- I. TERM—Algebra, 5, Elocution, 5,
Cæsar, 5,
German, 5, or History of England, 5.
- II. TERM—Algebra, 5, Literature, 5,
Cæsar, 5,
German, 5, or Civics, 5.
- III. TERM—Algebra, 5, Literature, 5,
Cicero, 5,
German, 5, or Botany, 5.

FOURTH FORM.

- I. TERM—Geometry, 5, *German, 5,*
Vergil, 5, *or Physiology, 5,*
Cicero, 5, *or Chemistry, 5.*
- II. TERM—Geometry, 5, { Cicero, } 5,
Vergil, 5, { Ovid, }
German, 5, or Astronomy, 5.
- III. TERM—Physics, 5, *German, 5,*
Vergil, 5, *or Geology, 5,*
Solid Geometry, 5.

III. THE SCIENTIFIC COURSE.

FIRST FORM.

- I. TERM—Algebra, 5, History, 5,
Latin, 5, English, 5.
- II. TERM—Algebra, 5, English, 5,
Latin, 5, Drawing, 5.

- | | |
|------------------------|-------------|
| III. TERM—Geometry, 5, | History, 5, |
| Latin, 5, | English, 5. |

SECOND FORM.

- | | |
|----------------------------------|---------------------|
| I. TERM—Higher Arithmetic, 5, | Ancient History, 5, |
| Cæsar, Introduction, 5, | Rhetoric, 5. |
| II. TERM— | |
| { Book-keeping, | Ancient History, 5, |
| { Commercial Arithmetic, 5, | Literature, 5. |
| Cæsar, 5, | |
| III. TERM—Physical Geography, 5, | Literature, 5, |
| Cæsar, 5, | Ancient History, 5. |

THIRD FORM.

- | | |
|-----------------------|----------------|
| I. TERM—Algebra, 5, | German, 5, |
| Cæsar, 5, | Elocution, 5. |
| II. TERM—Algebra, 5, | German, 5, |
| Cæsar, 5, | Literature, 5. |
| III. TERM—Algebra, 5, | German, 5, |
| Botany, 5, | Literature, 5. |

FOURTH FORM.

- | | |
|--------------------------|------------------------|
| I. TERM—Geometry, 5, | History of England, 5, |
| <i>Physiology</i> , 5, | German, 5. |
| or <i>Chemistry</i> , 5, | |
| II. TERM—Geometry, 5, | Civics, 5, |
| Astronomy, 5, | German, 5. |
| III. TERM—Physics, 5, | German, 5, |
| Geology, 5, | Solid Geometry, 5. |

METHODS OF INSTRUCTION.

The Preparatory Curriculum naturally falls into seven principal lines of study, viz.: English, German, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary, and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities, and methods of the various departments are explained below.

I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. This work is done in the First Form.

In the Second Form a review in the principles of English Grammar is given, and a practical application of the same, together with rhetorical structure in paragraph writing and composition.

In the Third Form the first term is devoted to the study of Elocution, and the remaining two terms take up the study of Literature. The reading and study of the masterpieces of English and American Literature is maintained by means of daily recitations. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful reading of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form and structure" of other selections.

II. THE LATIN LANGUAGE.

The Course includes four and two-third years of Latin, embracing four books of Cæsar, six orations of Cicero, six books of Vergil, and twelve hundred lines of Ovid, besides a complete Course in Grammar and Composition.

Careful drill is given in the declensions and conjugations, in the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translations into idiomatic English. Attention is given to the important personal, historical, and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, and art of Rome. He is taught to investigate the allegorical, archæological, and mythical allusions of the *Æneid*, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

III. THE GREEK LANGUAGE.

The first two terms of the Third Form are spent in a thorough study of White's First Greek Book. In the third term Xenophon's *Anabasis* is read, and special attention is given to acquiring a vocabulary and to the forms and syntax of nouns, pronouns, and adjectives. In the first half of the Fourth Form the reading of Xenophon is continued. During the last half year Homer's *Iliad* is read, and the difference between the Homeric and Attic Forms is noted. Throughout the course, Prose Composition is frequently required for the purpose of acquiring a vocabulary and a knowledge of syntax. The course includes four books of the *Anabasis*, four books of the *Iliad*, besides the Grammar and Prose Composition.

IV. THE GERMAN LANGUAGE.

One year's study of German is required of members of the Third and Fourth Forms of the Scientific Course. The same work may be elected by the members of the corresponding form of the Latin Scientific Course instead of the science subjects of that course. In the study of German, the aim is a thorough acquaintance with declensions and conjugations; facility of pronunciation; quick recognition of words both by the eye and the ear; as extensive a vocabulary as the time will allow; and by constant practice the laying of a foundation for reading, writing, and speaking the language.

V. HISTORY.

The course in History includes a survey of the History of the United States, of England, of Greece, and of Rome. The aim is to acquaint the student with the life, the genius, the institutions, and

the achievements of the respective peoples, and their part in the wider history of mankind.

Additional courses are offered in Ancient, Mediæval, and Modern History, and extra courses in the historical readings required of applicants for examination and registration as students at law by the Supreme Court of Pennsylvania.

Civil Government is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are presented and discussed.

VI. MATHEMATICS.

Arithmetic. To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for college or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

Algebra. The Third Form course extends through one year, and includes a knowledge of the fundamental principles, Factoring, Divisors, and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals, and Quadratic Equations. Daily blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

The First Form takes up Algebra for the first two terms. The work is intended to give the pupils a knowledge of algebraic principles and to assist them in their Arithmetic. The third term is devoted to Concrete Geometry and Mechanical Drawing.

Plane and Solid Geometry. The instruction consists in daily recitations for three terms on the Theorems and Problems given in the text-book, with original demonstrations of the same propositions by the students from hints and figures given in the classroom. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

Book-keeping. A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-keeping. Careful attention is given to

business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications, as an elective, by properly qualified students.

VII. SCIENCE.

Physical Geography lays a foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The subject is illustrated by drawings, photographs, colored and relief maps, and specimens from the Museum.

Botany is taught by text-books, field exercise, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin, and preparations are used in class.

Physics. The student is grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiments, review, and repeated examination. The truth of principles is proved, except where the demonstration involves mathematics of the higher course in College.

Astronomy. Descriptive Astronomy discusses the earth's relations to the solar system, the masses, motions, and orbits of each member of it; the causes and consequences of the motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the theories of comets, meteors, and nebulae.

Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Geology. The student masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked, to produce changes are considered.

VIII. ORATORY.

Class Exercises. Members of the Fourth Form prepare and deliver one original oration each term. All other students have regular exercises in Composition and Declamation throughout the year. Public exercises are held before the faculty and students of the Academy. Visitors are cordially invited to these exercises.

In addition to the private rehearsals for the work above indicated, students in the Third Form receive daily instruction in elocution during the Fall term. The course includes careful drill in the Elementary sounds, in Articulation, and in expression; in Analytical Reading, including the Bible and Hymns; and the reading of Shakspeare.

IX. SPECIAL BRANCHES.

Bible Study. The study of the Bible is pursued as a regular weekly recitation throughout the First, Second, and Third Forms, in all Courses of study. A scheme of study is arranged at the beginning of each year. It is intended that the successive schemes for the various years of the course will cover the Life of Christ, the historical portions of the Old Testament foreshadowing the Christ, and the history of the Apostolic Church.

The Study of Music may be pursued by Academic students under the instruction of Professor E. Aviragnet and his assistants, of the School of Music.

Drawing. All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing and Penmanship

without extra charge. Special individual instruction in Drawing in the Art Studio is afforded at twenty-four dollars per annum.

X. HEALTH AND PHYSICAL CULTURE.

The Tustin Gymnasium affords opportunity for physical exercise. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The Athletic Association of the Academy has been formed to encourage and regulate athletic sports. The Association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

PUBLIC EXHIBITIONS.

THIRD FORM.

The Public Exhibition in Declamation by the Third Form will take place on Saturday evening, April 27th, 1907, in Bucknell Hall.

FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition in Oratory of the Fourth Form, on June 15th, 1907.

Diplomas and Certificates will be conferred Tuesday afternoon, June 18th, 1907.

GENERAL INFORMATION.

ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading Room. The Academy is designed to fit pupils thoroughly for College and Technical Schools, and to lay broad and solid foundations for all subsequent scholarly culture and for the successful conduct of every-day affairs.

GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study.

I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.
2. The government of the Academy, subject to such control, rests with the Principal of the Academy.
3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions, and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.
4. Each Instructor shall have charge of his classes with reference to attendance upon recitations. He shall report to the Principal cases of non-attendance, and inexcusable failure on the part of students to prepare regular lessons or special work assigned.

II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of any violation of the regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose.

2. Every violation of the laws and prudential regulations of the Academy will subject the offender to a penalty of demerits, graded according to the flagrancy and frequency of the offense.

3. When the sum of a pupil's demerits equal ten it shall be the Principal's duty to notify the parent or guardian of the offender, specifying the offense; for every additional ten demerits like notification shall be made.

4. Additional disciplinary penalties in the form of reprimand, "campus," suspension, dismissal, or expulsion, according to the necessities of the case, will follow repeated violations.

BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of the Catalogue.

The Main Building contains, besides its accommodations for other school and boarding purposes, rooms for students. The rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high. They are subdivided into a study room twelve feet by ten feet, and a sleeping room nine feet square.

The East Hall contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings, and contain two commodious closets and two single wire mattress beds with all necessary furniture.

UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms. Two students occupy a study room in common. The sleeping rooms are provided with single bedsteads with wire mattresses and electric lights are supplied to both sleeping rooms and study for which there is a slight additional charge. All other furnishing is to be done by the occu-

pants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are ten feet by twelve feet; of the sleeping rooms, nine feet by nine feet.

ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors, and the Matron live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding-house. So far as may be warranted by the deportment of the students, there will be absent from the home-life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preference of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing Encyclopedias, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Rooms are provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Ancient Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The apparatus of the College also is accessible to the classes for purposes of experiment and illustration.

The College Library, numbering thirty thousand volumes, is available for all students.

SCHOOL-ROOM.

In order to insure favorable conditions of study, the Academy maintains a commodious and well-appointed school-room. The school life centers in this room. Here, except when engaged in recitations, day students prepare their work, unless excused for a part of the time, for good cause; here, also, all the younger students of the lower forms prepare for their recitations. Advanced students and those of maturer years, who have acquired habits of independent study, are granted the privilege of preparing part of their work in their rooms, provided that they maintain high scholarship and excellent deportment.

HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only two hours. This time should be sacred to its purpose. Parents of day pupils are requested to coöperate with the school in securing attention to evening study hours, and to avoid furnishing occasions or granting excuses for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations, see the Calendar of the University.

STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings range from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose grade in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without examination.

All students who complete in a satisfactory manner any of the Courses of Study, and who have sustained irreproachable character during their school residence, shall be entitled to the diploma of the Academy.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

PRIZES.

THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize for excellence in Composition.

This prize for 1906 was awarded to Max C. Wiant.

THE REV. DAVID PORTER LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize to that member of the Third Form who shall excel in the Annual Exhibition of the Third Form in Declamation.

This prize for 1906 was awarded to Arthur Stewart Wahl.

THE WILLIAM E. MARTIN PRIZE.

Principal Thomas offers an annual prize, named in honor of Professor William E. Martin, to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1906 was awarded to Max C. Wiant.

LITERARY SOCIETY.

This is a voluntary organization of students for mutual improvement in literary and oratorical exercises. It has a large and convenient hall in the Main Academy Building, where meetings are held on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises, which all students are required to attend. Devotional exercises are also held every evening, just before the evening study hour. All academic students residing on the University campus are required to attend these exercises.

Regular attendance at Sunday school and upon public worship at some church on Sunday morning, is required; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Christian Endeavor or other like Young People's Society, and the mid-week prayer-meetings, while voluntary, is strongly urged upon students.

Parents or guardians are requested to indicate to the Principal the church which they desire their sons or wards to attend.

The Academy students maintain a branch of the Young Men's Christian Association, which hold a weekly prayer-meeting on Tuesday evenings, and song and praise meeting on Sunday evenings.

EXPENSES OF ACADEMY STUDENTS.

EAST HALL.

	<i>Per annum.</i>
Tuition, Board, Furnished Room, Heat, Light, Care, Washing and Incidentals	\$245 00

MAIN HALL.

Tuition, Board, Unfurnished Room, Heat, Washing, and Incidentals	205 00
Tuition and Incidentals to day pupils	65 00

A student engaging a room is required to make a deposit of ten dollars. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

All charges are payable to the Registrar of the University in advance, at the beginning of each term, that is, by the 25th of September, 10th of January, and 10th of April.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than twelve pieces per week.

Students who remain in the Academy during the holiday or spring vacation will be charged at the rate of \$4.50 per week. Table boarders will be charged the regular rate, \$3.00 per week.

Free scholarships covering tuition are provided in all the departments of the University for the children of Ministers of the Gospel *in actual service*. Tuition is rated at \$36 a year.

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, or the Principal, Benjamin F. Thomas, A. M.

THE INSTITUTE.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

THOMAS ALPHEUS EDWARDS, A. M.,
DEAN OF THE DEPARTMENT FOR WOMEN,
AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR OF THE SCHOOL OF MUSIC.

EMMA LOUISE BUSH, A. B., PRECEPTRESS,
TEACHER OF GERMAN.

GRACE SLIFER, A. M.,
TEACHER OF LATIN AND ENGLISH.

MARY ANN HURSH UNGER, A. B.,
TEACHER OF ENGLISH AND HISTORY.

EDITH SCHILLINGER,
TEACHER OF ELOCUTION AND GYMNASTICS.

EDITH J. METCALF,
TEACHER OF INSTRUMENTAL MUSIC.

RUTH ANGELINE BOTTORF,
TEACHER OF INSTRUMENTAL MUSIC.

MARY ELIZABETH BOYNTON,
TEACHER OF INSTRUMENTAL MUSIC.

WINIFRED GRACE ISAAC,
TEACHER OF VOCAL MUSIC.

EMMA GRIER GEARHART,
TEACHER OF VOCAL MUSIC.

MARTIN LINNÆUS DRUM, PH. B.,
TEACHER OF MATHEMATICS.

PHARES GROSS HESS, A. B.,
TEACHER OF SCIENCE.

WILHELMINA M. DARLINGTON,
TEACHER OF ART.

HENRY TAYLOR MEYER, A. B.,
TEACHER OF ENGLISH.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR.

DIRECTORY OF THE ALUMNÆ.

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Vice-President, MRS. SARAH SHORKLEY.

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Corresponding Secretary, MRS. JOHN LYNCH,
334 S. Forty-second Street, Philadelphia.

Treasurer, MRS. DEWEY A. COBB,
648 N. Fifty-sixth Street, Philadelphia.

The Dean of the Department for Women will esteem it a favor if any graduate who changes her residence will give notice of her new address. He will also be grateful for any information that will assist in making the directory of the graduates and former students complete.

GRADUATES, CLASS OF 1906.

NAME.	RESIDENCE.
KATHERINE BECKLEY,	Lewisburg
HANNAH FAIRCHILD DERR,	Steelton
GRACE GRIFFITHS,	Lewisburg
RUTH ALMA KERSTETTER,	Lewisburg
KATHERINE HOLZER SANNER,	Frackville
LOUISE ESSICK SAVIDGE,	Sunbury
LEONORA MAE SHAMP,	Lewisburg
BEATRICE P. WEILL,	Lancaster
AMELIA MARGARET WENSEL,	Lewisburg

NAMES OF STUDENTS.

GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
EVA IRENE GINTER,	<i>Lewisburg.</i>	Market Street
MARGARET GROFF,	<i>Lewisburg.</i>	Lewisburg
SARAH ETHEL JUDD,	<i>Lewisburg.</i>	University Avenue
RACHEL MAY KUNKEL,	<i>Bucknell.</i>	Bucknell
FANNIE DRUE LOGAN,	<i>Sunbury.</i>	Sunbury
LEONORA MAE SHAMP,	<i>Lewisburg.</i>	St. Catharine Street
DOROTHY WALLS,	<i>Lewisburg.</i>	South Third Street

THE SENIOR CLASS.

HARRIET KREMER BOWER,	<i>Lewisburg.</i>	South Sixth Street
MARY MATILDA BROWN,	<i>Lewisburg.</i>	Lewisburg

NAME.	RESIDENCE.	ROOM.
ELIZABETH LEONE BROWN,	<i>Allegheny.</i>	Women's College
SADIE EMERSON BURGESS,	<i>Sadieville, Ky.</i>	Women's College
RUTH YOUNG CHAPIN,	<i>Milton,</i>	Milton
FRANCES GROFF,	<i>Lewisburg.</i>	Lewisburg
HELEN HARE,	<i>Lewisburg.</i>	University Avenue
EMILY HEATON,	<i>Milton.</i>	Milton
MARY HEATON,	<i>Milton.</i>	Milton
ADA ELLEN MOORE,	<i>St. Clair, Mo.</i>	South Third Street
MILDRED JESSIE SHAFFER,	<i>Lewisburg.</i>	Lewisburg

THE FOURTH YEAR CLASS.

HAZEL L. BODINE,	<i>Merchantville, N. J.</i>	Women's College
ALMA MARGARET DIETRICH,	<i>Madisonville.</i>	Women's College
ANNA JOSEPHINE DERR,	<i>Lewisburg.</i>	Market Street
CHARLOTTE MAY HAWK,	<i>Tower City.</i>	Women's College
MARY ANNA KLINE,	<i>Sunbury.</i>	Sunbury
JESSIE CLAIRE MCCOOL,	<i>Pottsgrove.</i>	Women's College
LAURA ELLEN MCGANN,	<i>Lewisburg.</i>	South Third Street
EDNA ANNE MILLER,	<i>Montrose</i>	Women's College

NAME.	RESIDENCE.	ROOM.
CAROL FRANCES SPRATT,	<i>Lewisburg.</i>	North Third Street
MARGUERITE WATROUS,	<i>New York City.</i>	North Third Street

THE THIRD YEAR CLASS.

EMMA MINCH CLEMENT,	<i>Mt. Ephraim, N. J.</i>	Women's College
BESSIE NEWTON CONDUCT,	<i>Trenton, N. J.</i>	South Third Street
ANNA KALER DREISBACH,	<i>Lewisburg.</i>	South Third Street
EUDORA REGINA HAMLER,	<i>Lewisburg.</i>	Market Street
MYRA ALVENA HIGH,	<i>White Deer,</i>	White Deer
ERNESTINE SUSANNA HYATT,	<i>Lewisburg.</i>	North First Street
ELIZABETH BUDD MULFORD,	<i>Bridgeton, N. J.</i>	Women's College
BERTHA REED PFLEEGOR,	<i>Montandon.</i>	Montandon
LUCILE SAVIDGE,	<i>Sunbury.</i>	Sunbury
ANNETTE AMELIA STAHL,	<i>Lewisburg.</i>	Market Street
HELEN ELIZABETH STURR,	<i>Elmer, N. J.</i>	Women's College
RUTH FURMAN TIPPETT,	<i>Sparrow's Point, Md.</i>	Women's College
ELIZABETH R. WEDDELL,	<i>Rillton.</i>	Women's College

THE SECOND YEAR CLASS.

HELEN KING BARTOL,	<i>Lewisburg.</i>	University Avenue
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NAME.	RESIDENCE.	ROOM.
HESSIE ELIZABETH BRAUCHT,	<i>East Waterford.</i>	Lewisburg
LANNAH BARTON BUBB,	<i>Lewisburg.</i>	University Avenue
FRANCES THERESA CRONIN,	<i>Plymouth.</i>	Women's College
MARGUERITE DUNCAN,	<i>Lewisburg.</i>	South Second Street
MELLEN WOLFE FOCHT,	<i>Lewisburg.</i>	South Second Street
MARIA AGNES SPYKER,	<i>Lewisburg.</i>	North Third Street

THE FIRST YEAR CLASS.

MARY EVA BRIGHT,	<i>Rebersburg.</i>	Women's College
ELEN MAY BROWN,	<i>Lewisburg.</i>	Lewisburg
MARY HULLEY,	<i>Lewisburg.</i>	South Fourth Street
MUTH BARBER MOHN,	<i>Lewisburg.</i>	South Third Street
MOROTHY WOLFE,	<i>Lewisburg.</i>	St. George Street

PURSUING SELECT STUDIES.

MARY ETTA ANDERSON,	<i>Reed's Gap.</i>	Women's College
MULIA ELLA ANDREWS,	<i>Powell.</i>	Women's College
MELICE AMBLER ARMSTRONG,	<i>Merchantville, N. J.</i>	Women's College
MOIS MARY BROWN,	<i>Lewisburg.</i>	Lewisburg
MARRIET C. BURROWS,	<i>Sunbury.</i>	Sunbury

MARY ELIZABETH DAVISON,	<i>Danville.</i>	Women's College
MARY EDNA DEITRICH,	<i>Madisonburg.</i>	Women's College
FANNIE DERR,	<i>Lewisburg.</i>	Market Street
MILDRED MASTERS EVES,	<i>Millville.</i>	Millville
THERZA BELL HAWKE,	<i>Confluence.</i>	Women's College
ADALENE BING HOLLAND,	<i>DuBois.</i>	Women's College
MARIE HUMPHREY,	<i>Brookville.</i>	Women's College
MARTHA SCOTT IRWIN,	<i>Allenwood.</i>	Allenwood
JANE LEVINA JORDAN,	<i>Kane.</i>	Women's College
HARRIET YARGER KEISER,	<i>Lewisburg.</i>	Lewisburg
JESSIE THERESA KREMER,	<i>Lewisburg.</i>	North Third Street
CLARA J. PAULING,	<i>West Milton.</i>	West Milton
GRACE CATHERINE RAPER,	<i>Lairdsville.</i>	Women's College
SUE D. SCHAEFFER,	<i>Reading.</i>	Women's College
MARY E. STAROOK,	<i>Lewisburg.</i>	Lewisburg
LOU LILLIAN SWALM,	<i>Tower City.</i>	Women's College
ADA ROSALIE SWARTZ,	<i>Altoona.</i>	Women's College
MARY ELLEN SWARTZ,	<i>Altoona.</i>	Women's College
LULU THOMAS,	<i>Philipsburg.</i>	Women's College

LOLA MIRIAM ULRICH,	Women's College
<i>Penn Hall.</i>	
HARRIET LAVINE WILSON,	Women's College
<i>Frankford.</i>	
DORA EMMA ZEITLER,	Women's College
<i>Punxsutawney.</i>	

SUMMARY.

Graduate Students	7
Senior Class	11
Fourth Year Class	10
Third Year Class	13
Second Year Class	7
First Year Class	5
Pursuing Select Studies	27
Students in Art and Elocution not otherwise counted.....	8
<hr/>	
Total	88

COURSES OF STUDY.

The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if upon examination they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

Credentials from Graded Schools are accepted in the studies of the First and Second Years.

Credentials are accepted for the Third and Fourth Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

I. THE LITERARY COURSE.

The Literary Course embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra with Trigonometry and Analytical Geometry as electives; in LATIN four years; in GERMAN, two years, and a third year elective with FRENCH; in FRENCH one year; and in ITALIAN and SPANISH, an optional course; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory, and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology, Ethics, and History of Art.

Special attention is given to History and Literature, to the former of which six and to the latter of which three terms are devoted, besides the reading of English and American authors required for admission to College.

Graduates of the Institute in the Literary Course, upon the completion of eighteen courses of additional work in the College of Liberal Arts, may receive the degree of Bachelor of Letters.

II. THE CLASSICAL COURSE.

The Classical Course embraces in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry and Analytical Geometry; in LATIN, Grammar and Composi-

tion, Cæsar, Vergil, Cicero's Orations, Ovid, Cicero *de Senectute* et *de Amicitia*, Livy, and Velleius, in all, five years; in GREEK Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Plato's Apology, Homer's Odyssey, and the Greek Testament, in all three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical course except that scientific subjects are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

Students in the fifth year Classical or Latin Scientific course recite to the professors in the College.

Students who do not wish to pursue a course of study may elect such subjects in connection with the recitations of the regular classes as they may be qualified to pursue.

AGE REQUIREMENT FOR ADMISSION.

The required age for admission to the first-year class or to pursue select studies is twelve years, and a proportionate increase of age for admission to advanced classes.

CURRICULA.

Arabic numerals indicate the number of recitations a week
in each subject.

I. THE LITERARY COURSE.

FIRST YEAR.

- | | |
|----------------------------------------------------|--------------------------|
| I. TERM—Algebra, 5,
Latin, 5,
History, 5, | English, 4,
Bible, 1. |
| II. TERM—Algebra, 5,
Latin, 5,
Drawing, 5, | English, 4,
Bible, 1. |
| III. TERM—Geometry, 5,
Latin, 5,
History, 5, | English, 4,
Bible, 1. |

SECOND YEAR.

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| I. TERM—Higher Arithmetic, 5,
Cæsar, Introduction, 5,
Ancient History, 5, | Rhetoric, 4,
Bible, 1. |
| II. TERM—
<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> { <div style="display: inline-block; vertical-align: middle;"> Book-keeping,
 Commercial Arithmetic, 5,
 Cæsar, 5, </div> </div> | Ancient History, 5,
Literature, 4,
Bible, 1. |
| III. TERM—Physical Geography, 5,
Cæsar, 5,
Ancient History, 5, | Literature, 4,
Bible, 1. |

THIRD YEAR.

- | | |
|------------------------|----------------|
| I. TERM—Algebra, 5, | Elocution, 4, |
| Cæsar, 5, | Bible, 1. |
| German, 5, <i>or</i> | |
| History of England, 5, | |
| II. TERM—Algebra, 5, | Literature, 4, |
| Cicero, 5, | Bible, 1. |
| German, 5, <i>or</i> | |
| Civics, 5, | |
| III. TERM—Algebra, 5, | Literature, 4, |
| Cicero, 5, | Bible, 1. |
| German, 5, <i>or</i> | |
| Botany, 5, | |

FOURTH YEAR.

- | | |
|-----------------------|--------------------------|
| I. TERM—Geometry, 5, | German, 5, <i>or</i> |
| Vergil, 5, | Physiology, 5, <i>or</i> |
| Cicero, 5, | Chemistry, 5. |
| II. TERM—Geometry, 5, | German, 5, <i>or</i> |
| Vergil, 5, | Astronomy, 5. |
| { Cicero, } 5, | |
| { Ovid, } 5, | |
| III. TERM—Physics, 5, | German, 5, <i>or</i> |
| Vergil, 5, | Geology, 5. |

SENIOR YEAR.

- | | |
|------------------------|-----------------|
| I. TERM—Psychology, 5, | Bible, 1, |
| English Literature, 5, | Composition, 1, |
| French, 5, <i>or</i> | Elocution, 1. |
| German, 5, <i>or</i> | |
| Solid Geometry, 5, | |

- | | |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| II. TERM—English Literature, 5,
History of Art, 5, <i>or</i>
French, 5, <i>or</i>
German, 5, <i>or</i>
Algebra, 5, | Bible, 1,
Composition, 1,
Elocution, 1,
Physical Culture, 5. |
| III. TERM—Ethics,
American Literature,
French, <i>or</i>
German, <i>or</i>
Trigonometry, | Bible, 1,
Composition, 1,
Elocution, 1. |

II. THE CLASSICAL COURSE.

FIRST YEAR.

- | | |
|----------------------------------------------------|--------------------------|
| I. TERM—Algebra, 5,
Latin, 5,
History, 5, | English, 4,
Bible, 1. |
| II. TERM—Algebra, 5,
Latin, 5,
Drawing, 5, | English, 4,
Bible, 1. |
| III. TERM—Geometry, 5,
Latin, 5,
History, 5, | English, 4,
Bible, 1. |

SECOND YEAR.

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| I. TERM—Higher Arithmetic, 5,
Cæsar, Introduction, 5,
Ancient History, 5, | Rhetoric, 4,
Bible, 1. |
| II. TERM— <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> { Book-keeping,
 Commercial Arithmetic, 5,
 Cæsar, 5, </div> | Ancient History, 5,
Literature, 4,
Bible, 1. |
| III. TERM—Physical Geography, 5,
Cæsar, 5,
Ancient History, 5, | Literature, 4,
Bible, 1. |

THIRD YEAR.

- | | |
|------------------------------------------------------------|-----------------------------|
| I. TERM—Geometry, 5,
Cæsar, 5,
Greek, 5, | Elocution, 4,
Bible, 1. |
| II. TERM—Algebra, 5,
Cicero, 5,
Greek, 5, | Literature, 4,
Bible, 1. |
| III. TERM—Algebra, 5,
Cicero, 5,
Greek, Anabasis, 5, | Literature, 4,
Bible, 1. |

FOURTH YEAR.

- | | |
|-------------------------------------|------------------------------------------|
| I. TERM—Geometry, 5,
Vergil, 5, | Cicero, 5,
Greek, Anabasis, 5. |
| II. TERM—Geometry, 5,
Vergil, 5, | { Cicero, } 5,
Ovid, }
Iliad, 5. |
| III. TERM—Physics, 5,
Vergil, 5, | Iliad, 5,
Anabasis, 5. |

SENIOR YEAR.

- | | |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| I. TERM—Solid Geometry, 5,
Cicero de Senectute, 5,
{ Odyssey,
{ Greek Prose Compositions, 5, | Bible, 1,
Composition, 1,
Elocution, 1. |
| II. TERM—Algebra, 5,
Livy, 5,
{ Lysias,
{ Greek Testament, 5, | Bible, 1,
Composition, 1,
Elocution, 1,
Physical Culture, 5. |
| III. TERM—Trigonometry, 5,
Velleius and Pliny, 5,
{ Plato,
{ Greek Testament, 5, | Bible, 1,
Composition, 1,
Elocution, 1. |

III. THE LATIN SCIENTIFIC COURSE.

FIRST YEAR.

- | | |
|------------------------|-------------|
| I. TERM—Algebra, 5, | English, 4, |
| Latin, 5, | Bible, 1. |
| History, 3, | |
| | |
| II. TERM—Algebra, 5, | English, 4, |
| Latin, 5, | Bible, 1. |
| Drawing, 5, | |
| | |
| III. TERM—Geometry, 5, | English, 4, |
| Latin, 5, | Bible, 1. |
| History, 5, | |

SECOND YEAR.

- | | |
|----------------------------------|---------------------|
| I. TERM—Higher Arithmetic, 5, | Rhetoric, 4, |
| Cæsar, Introduction, 5, | Bible, 1. |
| Ancient History, 5, | |
| | |
| II. TERM— | |
| { Book-keeping, | Ancient History, 5, |
| { Commercial Arithmetic, 5, | Literature, 4, |
| Cæsar, 5, | Bible, 1. |
| | |
| III. TERM—Physical Geography, 5, | Literature, 4, |
| Cæsar, 5, | Bible, 1. |
| Ancient History, 5, | |

THIRD YEAR.

- | | |
|------------------------|---------------|
| I. TERM—Algebra, 5, | Elocution, 4, |
| Cæsar, 5, | Bible, 1. |
| German, 5, or | |
| History of England, 5, | |

- | | |
|-----------------------|----------------|
| II. TERM—Algebra, 5, | Literature, 4, |
| Cicero, 5, | Bible, 1. |
| German, 5, <i>or</i> | |
| Civics, 5, | |
| III. TERM—Algebra, 5, | Literature, 4, |
| Cicero, 5, | Bible, 1. |
| German, 5, <i>or</i> | |
| Botany, 5, | |

FOURTH YEAR.

- | | |
|-----------------------|--------------------------|
| I. TERM—Geometry, 5, | German, 5, <i>or</i> |
| Vergil, 5, | Physiology, 5, <i>or</i> |
| Cicero, 5, | Chemistry, 5. |
| II. TERM—Geometry, 5, | German, 5, <i>or</i> |
| Vergil, 5, | Astronomy, 5. |
| { Cicero, | |
| Ovid, 5, | |
| III. TERM—Physics, 5, | German, 5, <i>or</i> |
| Vergil, 5, | Geology, 5, <i>or</i> |
| | Solid Geometry, 5. |

SENIOR YEAR.

- | | |
|----------------------------|----------------------|
| I. TERM—Solid Geometry, 5, | Bible, 1, |
| Cicero de Senectute, 5, | Composition, 1, |
| German, 5, | Elocution, 1. |
| II. TERM—Algebra, 5, | Bible, 1, |
| Livy, 5, | Composition, 1, |
| German, 5, | Elocution, 1, |
| | Physical Culture, 5. |
| III. TERM—Trigonometry, 5, | Bible, 1. |
| Velleius and Pliny, 5, | Composition, 1, |
| French, 5, | Elocution, 1. |

METHODS OF INSTRUCTION.

I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the Course in Ethics is to make the instruction as practical as possible. Theses on problems in Ethics are required of each student taking the subject, in addition to recitations from text-books.

II. LITERATURE AND ART.

LITERATURE is taught by topical outlines, the elaboration of which depends upon a sympathetic study of the masterpieces in connection with the lives and times of the writers. The subject is so presented that a vital experience results rather than an empty form of knowledge. The object of the course is to cultivate and ennoble the emotions, to stimulate the imagination, and to reinforce the will with strong and exalted motives.

THE HISTORY OF ART is offered in the Senior Year, Literary Course. The aim of the course is to give a general knowledge of the development of art and lead to an acquaintance with individual artists and their work. Some attention is given to the theories concerning the origin of the art-impulse itself, and the law of the mental evolution which has governed the history of art.

III. HISTORY.

History. Six terms are devoted to this study. The course embraces General History, the History of the United States, of England, of Greece, and of Rome. Efforts are made to show the learner that History is not mere facts in chronological order, but a record of the development of civilization.

Civil Government. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are discussed.

IV. THE ENGLISH LANGUAGE.

English Grammar. The aim is to train the pupils to speak and write the English language with accuracy and force.

Rhetoric is taught as a practical aid to English Composition. Daily exercises in composition are required.

English Composition is required throughout the course. Classes in Composition meet weekly for general criticism and the assignment of work. One essay is required from each student monthly, and an exercise in rapid and concise writing is required weekly.

V. THE LATIN LANGUAGE.

Paradigms of Declension and Conjugation with the Principles of Syntax, are introduced gradually, after many illustrations. English sentences are translated into Latin, readiness in Latin Composition and a correct style being thus acquired.

The following courses are offered: 1. Latin Grammar and Lessons; 2. Eutropius; 3. Cæsar, Gallic War; 4. Vergil, *Æneid*; 5. Cicero, Orations; 6. Ovid; 7. Cicero, *de Senectute*, and Livy; 8. Livy, Books XXI and XXII; 9. Velleius and Pliny.

VI. THE GREEK LANGUAGE.

The first half of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's *Anabasis*. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh her knowledge of Attic Greek, and may not find her transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course: 1. Greek Lessons; 2. Xenophon's *Anabasis*; 3. Homer's *Iliad*; 4. Lysias' Orations; 5. Homer's *Odyssey*; 6. Plato's *Apology*; 7. Greek New Testament.

VII. MODERN LANGUAGE.

1. **French, Italian, and Spanish.** The modern languages are taught by comparing them with the mother tongue of the pupil, if there be any relation between them. If there is none, they are compared with the Latin and Greek languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from Whitney's Practical French.

As far as practical only French is spoken in the class-room. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the modern languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

2. **German.** In the study of German the aim is to get knowledge of the language in an all-round way. This is accomplished not alone through the study of grammar and the translation of German into English, but by daily practice in conversation, the committing to memory of poems and idioms, and through an acquaintance with biography and the different phases of German life. As little English as practicable is used in the class-room. Throughout the course there is constant sight reading, translation at hearing, and translation from English into German.

The reading of the second year includes the best German authors studied in connection with Keller's History of German Literature.

VIII. MATHEMATICS.

Arithmetic. Two objects are considered in teaching the subject; first, to give the student a practical knowledge of all ordinary business problems and calculations; second, to develop her ability to think logically and rapidly. The memorizing of rules and mechanical processes is not required, but independent thought, logical analysis and neatness, clearness and accuracy in all written work are demanded. A drill in Mental Arithmetic is combined with the required work of the text-book.

Elements of Algebra. Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the applications of arithmetical processes to symbols of general value is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variations, and Series.

Geometry. The course includes Plane and Solid Geometry. Besides the demonstrations of Theorems given in the text-book, original demonstrations and the solution of problems are required.

Higher Algebra. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions, and the Theory of Equations.

Trigonometry. The course includes Plane and Spherical Trigonometry. Time is given to the numerical illustrations of principles for the purpose of making sure that the meaning and use of formulæ demonstrated and learned are thoroughly understood.

Analytical Geometry. The student is taught the elementary properties of the right line and the conic sections. The course is intended to give a clear conception of the methods of Cartesian Analysis, rather than an extensive knowledge of its results.

IX. SCIENCE.

Physics. The student is thoroughly grounded in the elements of mechanics and physics. The historical beginnings of each subject, and subsequent developments, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics. The apparatus of the College is available for class use.

Astronomy. Descriptive Astronomy discusses the earth's relation to the solar system; the masses, motions, and orbits of each member; the causes and consequences of the motions of the earth; general boundaries of the constellation of the Zodiac and Northern Heavens; the accepted theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Physical Geography lays a broad foundation for subsequent work in all sciences. Special attention is given to the physical features of the United States. Drawings, photographs, colored and relief maps, and specimens from the Museum and field work aid to make the subject clear.

Geology. The student is required to master the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

Botany is taught by text-book and field work. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. Lectures explaining special forms of vegetable growth, and the flora of this country, complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. The subject is illustrated by the use of a manikin, charts, and preparations.

Descriptive Chemistry is taught by text-books, lectures, and experiments. The object of the course is to give the student a general knowledge of the common elements, their sources, uses, compounds, and behaviour towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place.

PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium is furnished with Indian clubs, dumb bells, wands,

rings, hoops, guns, wall pulleys, parallel bars, etc., and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to develop grace and strength. The Institute Campus of six acres furnishes facilities for exercises. Lawn Tennis and other outdoor games are encouraged, and exercise in the open air is required.

ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music, and refined surroundings, as well as direct instruction in Literature, Music, and Art. Special instruction in Music and Art is given in the schools devoted to those subjects.

SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music, and Art and receptions in charge of the pupils add variety to student life. No effort is spared to give the pupils the advantages of a cultured home. The purpose is to develop the social life of the Institution within itself. Students are not permitted, during term-time, to visit in neighboring towns. The number of social functions during the term is limited, and the consent of the Dean must be obtained for each function at least one month before it is to occur.

RELIGIOUS TRAINING.

The Institute is distinctly Christian in its influence. Morning and evening Chapel in the Hall of the Institute building is attended by all students in the Institute courses, special students, and women pursuing studies in the School of Music. College women living in the Institute attend evening Chapel.

Attendance upon Sabbath school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several classes for Scripture study.

The Young Women's Christian Association, a voluntary society open to the officers and students of the Institute, meets weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes and College Settlement work are in charge of this Association.

SPECIAL BRANCHES.

1. Italian and Spanish may be taken up as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

2. Bible instruction is given once a week throughout the entire course.

3. Essays are required of all students each month, and themes each week.

4. Two declamations are required of each student during each term.

5. Exercises in either Elocution or Reading are required once a week of all classes.

PUBLIC EXERCISES.

THE EXERCISES OF THE GRADUATING CLASS.

The Commencement Exercises of the Institute are held in the College Commencement Hall on Tuesday afternoon of Commencement week.

THE EXERCISES OF THE FOURTH YEAR CLASS.

The exercises of the Fourth Year Class, a combined musical and literary entertainment, are held in the Chapel of the Institute on the last Saturday evening in the month of April.

THE CONTEST IN ELOCUTION.

A contest in Elocution for the prize in that subject, open to all the members of the Institute, takes place in Bucknell Hall on the second Saturday evening in the month of May.

ALUMNÆ SOCIETIES.

The Alumnæ Association holds its anniversary on Monday afternoon of Commencement week.

The Lewisburg Alumnæ Club meets at the Institute on the second Tuesday of each month during term-time.

The Philadelphia Alumnæ Club is composed of graduates living in and near that city.

STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute an association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnæ and friends of the Institute. The money is loaned to beneficiaries, who obligate themselves to return it, *without interest*, as soon after their graduation as they may be able.

Before the organization of this Society, many promising students at Bucknell Institute were unable to finish the course of study because there was no provision for financial assistance.

Since 1887, but for the help of this Association, some of the best of our graduates would have been deprived of the training which has fitted them for the positions they now fill as teachers, authors, missionaries, and pastors' helpers.

During the first decade, twenty-four young ladies received aid. More than one half of these have returned the loan in full.

The Society meets in the parlors of the Institute on the first Wednesday afternoon after the opening of each term, at half-past two o'clock.

The annual meeting for the election of officers is held at the Institute on the first Wednesday after the opening of the winter term.

The payment of one hundred dollars constitutes the donor a Life Member of the Association; five dollars annually, an Active Member.

Contributions should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa. Any information will be given by the President, Mrs. Katherine B. Larison, Lewisburg, Pa. or Mrs. John T. Judd, Corresponding Secretary, Lewisburg, Pa.

DEPARTMENT OF ELOCUTION.

MISS EDITH SCHILLINGER.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought. Special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals afford opportunity for platform work. Bible reading and study of Shakspeare have places in the course. Special courses are offered to students who wish to take private lessons in elocution. Particular attention is given to curing persons of stammering and other defects in speech.

SPECIAL STUDENTS IN ELOCUTION.

NAME.	RESIDENCE.	ROOM.
DANA MELISSA BOWER,	<i>Elkhart, Ind.</i>	Women's College
LOIS MAY BROWN,	<i>Lewisburg.</i>	Lewisburg
HARRIET C. BURROWS,	<i>Sunbury.</i>	Sunbury
HELEN DITTING CLIBER,	<i>Hollidaysburg.</i>	Women's College
FANNIE DERR,	<i>Lewisburg.</i>	Market Street
WINNIE VIOLA DICKSON,	<i>Akron, Ohio.</i>	Women's College
ALVINA HARDT ENGLISH,	<i>Wellsboro.</i>	Women's College
EUDORA REGINA HAMLER,	<i>Lewisburg.</i>	Market Street
JOSEPHINE ADELAIDE HANKINS,	<i>Uniontown.</i>	Women's College
CHARLOTTE MAY HAWK,	<i>Tower City.</i>	Women's College
MYRA ALVINA HIGH,	<i>White Deer.</i>	White Deer
JENNIE HOPWOOD,	<i>Plymouth.</i>	Women's College
ERNESTINE SUSANNA HYATT,	<i>Lewisburg.</i>	North First Street

NAME.	RESIDENCE.	ROOM.
MAE ELIZABETH JONES,	<i>Franklin.</i>	Women's College
JESSIE THERESA KREMER,	<i>Lewisburg.</i>	North Third Street
MRS. CHARLES C. MELICK,	<i>Shamokin.</i>	Shamokin
URSULA DAWES PARMLEY,	<i>Mahanoy City.</i>	Women's College
GRACE CATHERINE RAPER,	<i>Lairdsville.</i>	Women's College
SARAH MATILDA RAY,	<i>Pittsburg.</i>	Women's College
GRACE VIRGINIA ROYER,	<i>Lewisburg.</i>	Lewisburg
LUCILE SAVIDGE,	<i>Sunbury.</i>	Sunbury
LENORA MAE SHAMP,	<i>Lewisburg.</i>	St. Catherine Street
ANNETTA AMELIA STAHL,	<i>Lewisburg.</i>	Market Street
MABEL SLOUT,	<i>Williamsport.</i>	Women's College
KATHERINE SNYDER,	<i>Lewisburg.</i>	Market Street
ANNA STAGE,	<i>Clearfield.</i>	Women's College
MARY E. STAROOK,	<i>Lewisburg.</i>	Lewisburg
ERIE MAE TEED,	<i>Oregon Hill.</i>	Women's College
ELIZABETH R. WEDDELL,	<i>Rillton.</i>	Women's College
IDA KATHERINE WILLIAMS,	<i>Reynoldsville.</i>	Women's College

Students in Elocution, 30.

THE ART DEPARTMENT.

MISS WILHELMINA DARLINGTON.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this Department, in a special studio, which provides such adjustments for admission of light, and unencumbered wall surface as to render it adapted for the execution and display of art productions.

For such students as desire opportunity for work preparatory to professional study, and to those who wish to fit themselves to give systematic instruction in drawing, the following course is provided:

First Year. Drawing in Pencil, Charcoal and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of Perspective, the Laws of Proportion, and the Relations of Light and Shade.

Second Year. Drawings from the Antique in Coal, Crayon, Sepia, or Oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies and Still Life.

Third Year. Composition, Color in Landscape, Pen and Ink Drawing, and Painting in Color from Nature and from Life.

On the successful completion of this entire course, a certificate of proficiency will be awarded.

Students who do not desire the certificate course, and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods—China Painting, Tapestry, Dyeing, and Applied Design in other mediums and materials.

Charges for instruction in Art are as follows:

	<i>Per Annum.</i>
Drawing	\$24.00
Crayoning	33.00
Painting in Oil, Water Colors, Pastel, or on China.	60.00
	<i>Per Lesson.</i>
Special individual instruction in Painting	\$1.00

Freehand Drawing is a part of the required work of the school without extra charge.

ART EXHIBIT.

On Saturday, Monday, and Tuesday of Commencement Week, a display of art products by the pupils of the School of Art is made in the Studio. At this time a committee of Art students receives and entertains all those who visit the Studio.

STUDENTS IN ART.

NAME.	RESIDENCE.	ROOM.
MAYME ANDERSON,	<i>Leechburg.</i>	Women's College
JULIA ELLA ANDREWS,	<i>Powell.</i>	Women's College
HELEN DITTING CLIBER,	<i>Hollidaysburg.</i>	Women's College
MRS. NELSON F. DAVIS,	<i>Lewisburg.</i>	South Sixth Street
MARGUERITE DUNCAN,	<i>Lewisburg.</i>	South Second Street
ELLEN WOLFE FOCHT,	<i>Lewisburg.</i>	South Second Street
MARGARET GROFF,	<i>Lewisburg.</i>	Lewisburg
HELEN MARY GROVE,	<i>Lewisburg.</i>	South Third Street
EMILY HEATON,	<i>Milton.</i>	Milton
MARY HEISER,	<i>Lewisburg.</i>	Market Street
MARIE HUMPHREY,	<i>Brookville.</i>	Women's College
LOUIS E. JONES,	<i>Bellefonte.</i>	Bellefonte
SARAH ETHEL JUDD,	<i>Lewisburg.</i>	University

NAME.	RESIDENCE.	ROOM.
MAUDE M. REITZ,	<i>Sunbury.</i>	Sunbury
SARA CATHERINE SHIPE,	<i>Sunbury.</i>	Sunbury
ALEX. TRUITT,	<i>Punxsutawney.</i>	Academy
MYRTLE HARGRAVE WALKINSHAW,	<i>Greensburg.</i>	Women's College
DOROTHY WALLS,	<i>Lewisburg.</i>	South Third Street
JONATHAN WOLFE,	<i>Lewisburg.</i>	St. George Street

Students in Art, 18.

GENERAL INFORMATION.

ADVANTAGES.

The Bucknell Institute offers to young women superior educational advantages. Its location in a University town assures an atmosphere of study and the benefit of numerous literary exercises, lectures, and addresses. The students in the Institute have the use of the Library and apparatus of the Institute, and also of the College Astronomical Observatory, Chemical Laboratory, Museum and Library, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

During the year 1905 about forty thousand dollars was expended in enlarging and improving the women's buildings.

ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Women's College, Institute, and School of Music is vested in the President of the University.

2. The government of the Institute, subject to such control, rests with the Dean.

3. Young women, whether attending the College, Institute or School of Music, are subject to the rules and regulations governing young women attending the Women's College.

RULES.

The laws governing the Women's College, are enacted by the Board of Trustees and a copy is given to each student when she enters the Institution.

Any officer of the Institute becoming cognizant of violation of regulations by any pupil shall report the same to the Dean, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall be reported to the President of the University; and if, in the judgment of the President of the University and the Dean, the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

Violations of the regulations of the Women's College or infraction of the laws of morality are punished by private reprimand, deprivation of privileges, or private withdrawal from the Institution.

PRIZES.

I. BUCKNELL PRIZES.

The following prizes were founded by William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1906 the First Prize of twenty-four dollars was awarded to Ruth Alma Kerstetter, and the Second Prize of sixteen dollars to Katherine Holzer Sanner.

3. A Third Senior Prize to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades of studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the Institute.

For the year 1906 this prize of twenty-five dollars was awarded to Amelia Margaret Wensel.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class, who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1906 these prizes were awarded as follows: Ada Ellen Moore received the First Prize of twenty dollars; Helen Hare, the Second Prize of fifteen dollars.

The fund consists of \$2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay Prizes will be drawn from the following works:

For 1907—Shakspere's *Macbeth*; Tennyson's *Idylls of the King*; Carlyle's *Essay on Burns*; Scott's *Lady of the Lake*.

II. THE ELOCUTION PRIZE.

A prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1906 the prize was awarded to Laura Ellen McGann.

EXPENSES OF INSTITUTE STUDENTS.

I. Boarding Students. The regular charge for Boarding Students is \$245.00 per annum; the other expenses, spending money, books, and clothing, will vary with the individual student.

An additional charge will be made when one student occupies a double room alone in the Main Building. Extra charge will also be made for front corner rooms in the West Wing.

Students are charged extra for the washing of dresses, and for the washing of more than 12 pieces per week.

For the rooms in the Bucknell Cottage and in New Cottage there is an extra charge, depending on the location.

Students from a distance will save inconvenience by applying for a room before the term opens. A deposit of ten dollars is required when a room is chosen. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

Students will be charged for damage done to furniture or to the room they occupy.

II. Day Students. The charges for Day Students amount to \$65.00 per annum.

III. Extra Studies. The charges for Elocution, Drawing and Painting, and Music will be found under those titles.

Bills are payable *strictly in advance*, by the 20th of September, January 15th, and April 15th.

Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term; and no deductions will be made, except in the charge of board, in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examination and on anniversary occasions, are paid by the class or classes which incur the expenses.

The fee for Graduation and Diploma is \$5.

Free scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service*.

For information respecting the Institute, address the Dean of the Department for Women, Thomas A. Edwards, A. M., or the President of the University.

BUCKNELL SCHOOL OF MUSIC.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR.

EDITH METCALF,
PIANO.

RUTH ANGELENE BOTTORF,
PIPE ORGAN, PIANO, VIRGIL CLAVIER.

MARY ELIZABETH BOYNTON,
PIANO, VIRGIL CLAVIER.

WINIFRED GRACE ISAAC,
VOCAL.

EMMA GRIER GEARHART,
ASSISTANT IN VOCAL MUSIC.

PAUL GARFIELD STOLZ,
HARMONY AND HISTORY OF MUSIC.

GRADUATES, 1906.

NAME.	COURSE.	RESIDENCE.
ELIZABETH IRENE BARBER,	<i>Piano, Harmony, Pipe Organ.</i>	Bridgeport
STELLA MAE DOSTER,	<i>Piano, Harmony.</i>	Danville
EMMA GRIER GEARHART,	<i>Vocal, Harmony.</i>	Danville
FANNIE MAY GETZ,	<i>Piano, Harmony.</i>	Lewisburg
MARGARET IRENE HUMPHREY,	<i>Piano, Vocal, Harmony.</i>	Curwensville
MARY ELIZABETH LEE,	<i>Piano, Pipe Organ, Harmony.</i>	Orwigsburg
FANNIE DRUE LOGAN,	<i>Piano, Pipe Organ, Harmony.</i>	Sunbury
MARY GEORGIANA STANTON,	<i>Piano, Harmony.</i>	Chinchilla
BLANCHE SARAH SECHLER,	<i>Piano, Harmony.</i>	Danville
RUTH STEPHENS,	<i>Piano, Pipe Organ, Harmony.</i>	Lewisburg
PAUL GARFIELD STOLZ,	<i>Piano, Vocal, Harmony.</i>	Philadelphia

NAMES OF STUDENTS.

PIANO.

NAME.	RESIDENCE.
HENRY SNARE AFRICA	Huntingdon
HELEN K. ALLEN	Lewisburg
MARY ETTA ANDERSON	Reed's Gap
JULIA ELLA ANDREWS	Powell
GEORGE BENDER	Lewisburg
HARRIET KREMER BOWER	Lewisburg
MARY EVA BRIGHT.....	Rebersburg
BERTHA BROWN	Lewisburg
HARRIET C. BURROWS	Sunbury
HAZEL MIRIAM CRAIG.....	Lewisburg
MARY ELIZABETH DAVISON	Danville
MARY EDNA DIETRICH	Madisonburg
MAY ANGELINE EVERITT	Vicksburg
GRACE CATHERINE EVERITT	Vicksburg
MILDRED MASTERS EVES	Millville
EVA IRENE GINTER	Lewisburg
MARGARET CHRISTINE GRETZINGER	Lewisburg
CARRIE GRUGAN	West Milton
MARY ETHEL GUTELIUS	Lewisburg
NINA HACKENBURG	Milton
PRISCILLA RICHARDSON HARDESTY	Washington, D. C.
CHARLOTTE MAY HAWK	Tower City
HERZA BELL HAWKE	Confluence
DAISY VALLEY HEGARTY	Madera
DALENE BING HOLLAND	DuBoistown
HARRIET MARY HOLLINGSHEAD	Milton
HARLES S. HOTTENSTEIN.....	Winfield
MARIE HUMPHREY	Brookville
MARTHA SCOTT IRWIN.....	Allenwood
MABEL ELIZABETH JOHNSON.....	Mt. Carmel
MARIE LEVINA JORDAN	Kane
MARRIET YARGER KEISER	Lewisburg
MACHEL MAY KUNKLE	Lewisburg
MAE ELIZABETH LINDIG	Lewisburg
ANNIE DRUE LOGAN	Sunbury
EDITH MARTIN	Lewisburg

NAME.	RESIDENCE.
ELIZABETH BUDD MULFORD	Bridgeton, N. J.
JEANETTE C. OWENS.....	Lewisburg
CLARA J. PAULING	West Milton
GRACE CATHERINE RAPER	Lairdsville
ELSIE MAY REEDER	Montoursville
SUE D. SCHAEFFER	Reading
LAURA MAUDE SCHULTZ.....	Sunbury
JULIA SMEED	Lewisburg
BESSIE SMYTHE	Montandon
ELIZABETH STEPHENS	Lewisburg
LILLIAN SWALM	Tower City
MARY ELLEN SWARTZ	Altoona
LULU THOMAS	Philipsburg
HELEN FLUKERSON TIFFANY	Pleasant Mount
ANNA M. TULE	Montandon
MARY SABINA ULMER	Cogan
LOLA MIRIAM ULRICH	Penn Hall
LEROY WAGNER	Lewisburg
ELIZABETH R. WEDDELL	Rillton
SYLVANIA WEISER	Watsonstown
WINIFRED WERKHEISER	West Milton
HARRIET LAVINIA WILSON	Frankford
DOROTHY WOLFE	Lewisburg
MARY YOUNG	Lewisburg
SARA EMMA ZEITLER	Punxsutawney

PIPE ORGAN.

NETTIE GORDON	Lewisburg
HELEN ELIZABETH STURR	Elmer, N. J.
MARY ELLEN SWARTZ	Altoona
JESSIE THERESA YOUNG	Lewisburg
SARA EMMA ZEITLER	Punxsutawney

VOICE.

MARY ETTA ANDERSON	Reed's Gap
JULIA ELLA ANDREWS	Powell
MARY EVA BRIGHT	Rebersburg
MARY EDNA DIETRICH	Madisonburg
NEWTON CROMWELL FETTER, JR.....	Doylestown

NAME.	RESIDENCE.
FRANK KEMP GIBSON	Minersville
PRISCILLA RICHARDSON HARDESTY.....	Washington, D. C.
THERZA BELL HAWKE	Confluence
DOROTHY HEGARTY	Madera
MYRA HIGH	White Deer
ADELENE BING HOLLAND	DuBoistown
MARTHA SCOTT IRWIN	Allenwood
JANE LEVINA JORDAN	Kane
DANIEL EDWARD LEIFER	New York City
WALTER MOORE	Milton
PAUL BLACK NOFTSKER	Shippensburg
WILLIAM EDWIN PARSONS	Montgomery
MARGARET ADELIA ROWLANDS	Homestead
SUE D. SCHAEFFER	Reading
EDNA ALICE SEAMAN	Allentown
LEONORA MAE SHAMP	Lewisburg
MARY E. STERNER	Montgomery
LOU LILLIAN SWALM	Tower City
ADA ROSALIE SWARTZ	Altoona
MARY ELLEN SWARTZ	Altoona
LOLA MIRIAM ULRICH	Penn Hall
MARGUERITE WATROUS	New York City
NALA DAMAYANTI WEBB.....	Rutherford, N. J.
ELIZABETH R. WEDDELL	Rillton
SARA EMMA ZEITLER	Punxsutawney

HARMONY—HISTORY OF MUSIC.

BERTHA BROWN	Lewisburg
MARY ELIZABETH DAVISON	Danville
MARY EDNA DIETRICH.....	Madisonburg
PRISCILLA RICHARDSON HARDESTY	Washington, D. C.
CHARLOTTE MAY HAWK	Tower City
THERZA BELL HAWKE	Confluence
ADELENE BING HOLLAND	DuBoistown
MARIE HUMPHREY	Brookville
MARTHA SCOTT IRWIN	Allenwood
HARRIET YARGER KEISER	Lewisburg
ELIZABETH BUDD MULFORD	Bridgeton, N. J.
LARA J. PAULING	West Milton
GRACE CATHERINE RAPER	Lairdsville

NAME.	RESIDENCE.
LOU LILLIAN SWALM	Tower City
ADA ELLEN SWARTZ	Altoona
MARY ELLEN SWARTZ	Altoona
MARY SABINA ULMER	Cogan
LOLA MIRIAM ULRICH	Penn Hall
HARRIET WILSON	Frankford
SARA EMMA ZEITLER	Punxsutawney

MANDOLIN, GUITAR, BANJO.

ELIZABETH HOPE ADAMS	Trenton, N. J.
COTTIE GUDILA ALBRIGHT	Lewisburg
JULIA ELLA ANDREWS	Powell
WILLIAM A. BARTOL	Lewisburg
HARRIET KREMER BOWER	Lewisburg
MILDRED BLACKWELL CATHERS	Flemington, N. J.
JANE CHAPMAN	Pittsburg
BELLE EMILY CRAIG	Lewisburg
HAZEL MIRIAM CRAIG	Lewisburg
ALMA MARGARET DIETRICH	Madisonburg
MARY EDNA DIETRICH	Madisonburg
HELGE FLORIN	Johnsonburg
HARRY CHESTER GARDNER	McKeesport
NORMAN BUCKLAND GARDNER	Sunbury
MARGARET CHRISTINE GRETZINGER	Lewisburg
THEODORE BLAND HOY	Montandon
JANE LEVINA JORDON	Kane
JESSIE CLAIRE MCCOOL	Pottsgrove
HELEN MAE OLDS	Lewisburg
WILLIAM EDWIN PARSONS	Montgomery
IOLA BEATRICE QUANDT	Altoona
GRACE CATHERINE RAPER	Lairdsville
SARA MATILDA RAY	Pittsburg
LEONORA MAE SHAMP	Lewisburg
MARY SLAWSON	Tunkhannock
ADA ROSALIE SWARTZ	Altoona
MARY ELLEN SWARTZ	Altoona
GRACE ETHEL WATKINS	Scranton
IDA KATHERINE WILLIAMS	Reynoldsville
NALA DAMAYANTI WEBB	Rutherford, N. J.
DOROTHY WOLFE	Lewisburg

SCIENCE OF MUSIC.

NAME.

RESIDENCE.

JANE CHAPMAN	Pittsburg
MARY ELIZABETH DAVISON	Danville
PRISCILLA RICHARDSON HARDESTY	Washington, D. C.
HARRIET YARGER KEISER	Lewisburg
RACHEL MAE KUNKLE,	Lewisburg
DANIEL EDWARD LEIFER	New York City
LOUISE ROBINSON	Milton
SARA MATILDA RAY	Pittsburg
MARGARET ADELIA ROWLANDS	Homestead
CAROL FRANCES SPRATT	Lewisburg
LOU LILLIAN SWALM.....	Tower City
IDA KATHERINE WILLIAMS	Reynoldsville

VIOLIN, VIOLA, VIOLONCELLO, DOUBLE BASS.

JULIA ELLA ANDREWS	Powell
MILDRED BLACKWELL CATHERS	Flemington, N. J.
FRANCES THERESA CRONIN	Plymouth
WILLIAM A. BARTOL	Lewisburg
BELLE EMILY CRAIG	Lewisburg
MARY ELIZABETH DAVISON	Danville
NORMAN BUCKLAND GARDNER.....	Sunbury
PRISCILLA RICHARDSON HARDESTY	Washington, D. C.
THEODORE BLAND HOY	Montandon
COIT ROSCOE HOECHST	East Berlin
DANIEL EDWARD LEIFER	New York City
LAWRENCE OSCAR MANLEY	Canton
LOUISE ROBINSON	Milton
LEO LAWRENCE ROCKWELL	Monroeton
CAROL FRANCES SPRATT	Lewisburg
EARLE WAYNE WHITNEY	Wellsboro
SARA EMMA ZEITLER	Punxsutawney

FLUTE, CORNET, CLARINET, TROMBONE.

ERNEST SABIN BURROWS	Picture Rocks
CHARLES EDGAR DREHER	Praxinos
ROY LONG	Northumberland
EDWIN REYNOLDS MANCHESTER	Scranton
ALBERT WAFFLE OWENS	Lewisburg

SUMMARY.

Piano	61
Pipe Organ	5
Voice	30
Harmony—History of Music	20
Mandolin, Guitar, Banjo	31
Science of Music	12
Violin, Viola, Violoncello, Double Bass.....	17
Flute, Cornet, Clarinet, Trombone	5
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Total Lessons	181
Total Pupils	107

COURSES OF STUDY.

The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

INSTRUMENTAL MUSIC.

COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *études*, designed to unite with purely technical drill the requirements of artistic style and expression.

PIANO.

FIRST YEAR.

New England Conservatory method, 1 and 2 parts; Le Couppey Ecole du Mécanisme; Duvernoy Ecole du Mécanisme, books 1, 2, and 3; Kohler, op. 157; Czerny, fifty Studies from op. 261, 821, 599, and 139, ed. of Heinrich Germer; Meyer, Progressive and Melodious Studies; Robert Sutton's "The Elements of the Theory of Music"; Brown, Musical Biographies of Composers.

SECOND YEAR.

Plaidy, Technical Studies; Czerny, Polyrhymic Studies from op. 139, 834, 335, and 299; Czerny, Studies of Ornamentation from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny,

thirty Studies from op. 299 and 834 (Heinrich Germer Edition); Heller, Expression and Rhythm, op. 135; Kullak, Preparatory Octave Studies; Homer Norris's Practical Harmony; History of Music.

THIRD YEAR.

Clementi "Gradus ad Parnassum"; Tausig, Daily Studies; Kohler Cramer Studies, books 1, 2, and 3; Czerny, thirty-six Octave Studies from op. 821, 355, 740, and 834 (Heinrich Germer Edition); Norris, Harmony; Dr. Marx, Universal School of Music.

FOURTH YEAR.

Bach, two and three-voiced invention; Czerny, twenty Studies from op. 325; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Heinrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; Bach Well-Tempered Clavichord (prelude and fugues); Kullak, Art of Touch; Symphonies of Haydn, Mozart, and Beethoven.

During the year, selected studies from Bertini, Rosselen, Moscheles, Heez, and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of the works of the best composers.

COURSE FOR PIPE ORGAN.

This course is based upon:

Dudley Buck's Pedal Studies, and upon the works of Rink, Batiste, Lefébre-Wely, Guilmant, and others.

COURSE FOR THE VIOLIN.

This course is based upon:

Dancla's School Mechanism; De Beriot's Violinist's First Guide; Florrillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from compositions of the best writers for this instrument.

COURSE FOR THE VIOLONCELLO.

Instruction for this instrument is based upon:

Méthod Pratique pour le Violoncello, par S. Lee; studies by Piatti and Romberg.

COURSE FOR THE VIOLA.

Bruni's Methods and Studies, by Campagnoli.

COURSE FOR CONTREBASSO (DOUBLE BASS).

Bottesini's Method.

VOICE CULTURE.

COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness, and durability, thorough drills are afforded in such technical exercises as:

Lamperti's and Vannuccini's Italian Methods, Vocalises of Sieber, Concone, Tütgen, Vaccai, Bonaldi, Bordogni, Marchesi, and Ponafka; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias and Solos from the Oratorios.

COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included in the other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are: Bussler's Harmonic Exercises, Homer Norris's Practical Harmony, Richter's Counterpoint, and Reicha's Course of Musical Composition.

THE ORCHESTRA.

CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart and Haydn.

THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School of Music. The band meets weekly in the Laboratory for rehearsal, and furnishes street and concert music for University and town exercises.

RECITALS.

On the Friday evening prior to Commencement Week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency is held in Bucknell Hall the Saturday afternoon before commencement. At this time each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

TUITION.

Extra tuition is charged for instruction in Music, as follows:

	<i>Per Annum.</i>
Vocal Music	\$60 00
Music on Piano <i>or</i> Organ	60 00
Harmony, in Class	18 00
Harmony, in private lessons	60 00
Use of Instruments for practice	10 00
Guitar, in Class	15 00
	<i>Per Lesson.</i>
Special individual instruction in Music.....	\$1 00

No reduction is made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

RESIDENCE OF MUSIC PUPILS.

Pupils in music reside in the Women's College and are under the care of the Dean of the Department for Women. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature.

The regular charges for pupils in music, residing in the Institute,

including one literary subject per term, are \$200 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

GRADUATION IN MUSIC.

Students who complete any of the Courses in Music and pass the examinations, receive a certificate of proficiency. Students will not be ranked as Seniors in Music until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the Spring term, and a final examination before Commencement Week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.

AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established four prizes as follows:

1. (a) One prize for excellence in Instrumental, Vocal Music and Harmony; (b) one for excellence in Science of Music. For 1906 the music prizes were awarded to Miss Mary Elizabeth Lee, Miss Irene Humphrey, Miss Emma Grier Gearhart and Mr. Paul Stolz. For 1906 the Prize for Science of Music was awarded to Miss Elizabeth Barber.

2. One prize for excellence in French and one for excellence in Spanish.

GENERAL REGULATIONS.

Young ladies attending upon the School of Music are subject to the administration and other regulations enacted by the Board of Trustees for the government of students in the Women's College. These rules are given on page 191 of this Catalogue. Students of Music are also entitled to all the privileges of the Women's College.

For information respecting the School of Music, address the Director, Elysée Aviragnet, Mus. Doc., or the President of the University.

UNIVERSITY CALENDAR.

1907-1908

Second Term Ends,Wednesday, March 27, 1907

SPRING RECESS.

Third Term Begins,.....Tuesday, April 2, 1907

Sermon before the Christian Association, ..Sunday, April 7, 1907

Declamation of the Third Form, Academy, Saturday, April 13, 1907

Exercises of the Fourth-Year Class, Institute,

Saturday, April 27, 1907

Contest in Elocution, Institute,Saturday, May 11, 1907

Exhibition of the Junior Class, College,Friday, May 17, 1907

Examinations,Wednesday to Saturday, June 12 to 15, 1907

Exhibition, School of Music,Friday, June 14, 1907

Junior Debate,Saturday, June 15, 1907

Baccalaureate Sermon,Sunday, June 16, 1907

Sermon before the Education Society,Sunday, June 16, 1907

Examinations for Admission to College, ...Monday, June 17, 1907

Meeting of the Alumnae of the Institute, ...Monday, June 17, 1907

Oration before the Literary Society,Monday, June 17, 1907

Annual Meeting of the Trustees,Tuesday, June 18, 1907

Annual Meeting of the Alumni,Tuesday, June 18, 1907

Exhibition of the Fourth Form, Academy, .Tuesday, June 18, 1907

Graduating Exercises of the Institute,Tuesday, June 18, 1907

Oration before the Alumni,Tuesday, June 18, 1907

ANNUAL COMMENCEMENT, the 57th, Wednesday, June 19, 1907

SUMMER VACATION.

Fall Examinations for Admission to College,

Wednesday, September 18, 1907

First Term Begins,Thursday, September 19, 1907

Reception by Christian Associations, Saturday, September 21, 1907

Introductory Address,Monday, September 23, 1907

Matriculation,Monday, November 25, 1907

Thanksgiving (recess of three days), Thursday, November 28, 1907

First Term Ends,Thursday, December 19, 1907

HOLIDAY RECESS.

Second Term Begins,Thursday, January 2, 1908

Day of Prayer for Colleges,Thursday, January 23, 1908

Second Term Ends,Thursday, March 19, 1908

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JANUARY, 1908

NO. 3



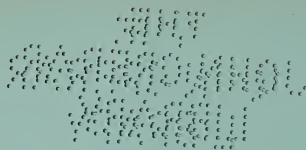
CATALOGUE

1907-1908



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THE

FIFTY-EIGHTH CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

Bucknell University:

COLLEGE OF LIBERAL ARTS

FOR THE YEAR 1907-1908

62



DEPARTMENTS.

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The Academy for Young Men.....	135 to 160
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The School of Music for Both Sexes.....	195 to 207

SUMMARY OF ATTENDANCE.

The College of Liberal Arts.....	538
The Academy for Young Men.....	96
The Institute for Young Women.....	106
The School of Music for Both Sexes.....	115
Total (deducting names repeated).....	771

CALENDAR.

The Spring Term Begins.....	Tuesday, March 31, 1908
Annual Commencement.....	Wednesday, June 17, 1908
The Fall Term Begins.....	Thursday, September 17, 1908
The Fall Term Ends.....	Thursday, December 17, 1908
The Winter Term Begins.....	Tuesday, January 5, 1909

PLAN AND PURPOSE OF THE UNIVERSITY

CORPORATE RIGHTS.

The University was incorporated with full university privileges by the Legislature of Pennsylvania, in an Act approved by the Governor on the fifth day of February, 1846. The management of the University is committed to a Board of Trustees, which is self-perpetuating. The trustees are prohibited, for any cause or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the institution. It is required by charter that no religious sentiments are to be counted a disability to hinder the election of an individual to any office among the teachers of the institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

ENDOWMENT.

The total property of the institution exceeds one million dollars. The productive investment amounts to over seven hundred thousand dollars. This money has been the gift of several hundred persons. Among the benefactors of the institution (including only those who have given ten thousand dollars or more) have been: DAVID JAYNE, JOHN PRICE CROZER, WILLIAM BUCKNELL, SAMUEL A. CROZER, HARRY SAMUEL HOPPER, HARRIET BUCKNELL HOPPER, JOHN D. ROCKEFELLER, CATHARINE A. WENTZ, CHARLES MILLER, JOHN J. CARTER, HENRY KIRKE PORTER, DAVID PORTER LEAS, ANDREW CARNEGIE.

THE MILLION-DOLLAR MOVEMENT.

The Board of Trustees at its meeting in January, 1903, authorized an effort to increase the endowment by one million dollars. It is expected to obtain this sum by gifts and legacies.

FORMS OF GIFTS.

To persons wishing to give money for the education of the young, the following forms of beneficence are suggested:

(a) Departments can be endowed for \$100,000 and upward.

(b) Professorships can be endowed for \$50,000 each.

(c) Fellowships can be endowed for \$10,000 each.

(d) Scholarships can be endowed by a gift of \$1,000 to \$5,000 each, the income to be given toward the expenses of the student. The income is estimated from the average income of the funds of the Institution, and is applied only in the year in which it falls due.

(e) A loan fund has been established. The interest from this is loaned to students, the principal being kept intact. In this way a large, active loan fund accumulates.

(f) A fund for the retirement of professors who, after long service, have, through age or infirmity, become unable to render further efficient service.

Each of these forms of beneficence will bear and perpetuate the name of the donor or of the person designated by him.

FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in their work of preparing young men and young women for usefulness, the following form of bequest is recommended:

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of.....Dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.

Or if for a special purpose:

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of.....Dollars for the establishment of a department, professorship, fellowship, scholarship, loan fund, or retirement fund, to bear and perpetuate the name of.....forever.

ORGANIZATION.

The University comprises four schools:

I. **THE COLLEGE** offers eight Courses of study, each of four years, and each leading to its appropriate degree:

1. The Classical Course.
2. The Philosophical Course.
3. The Course in Jurisprudence.
4. The General Science Course.
5. The Course in Biology.
6. The Course in Chemistry.
7. The Course in Civil Engineering.
8. The Course in Electrical Engineering.

II. **THE INSTITUTE** for young women has three Courses of study, the Literary, the Classical, and the Scientific, leading to diplomas which admit to the Sophomore year in College.

III. **THE ACADEMY** is designed to fit young men for College, either for the Classical, Philosophical, Scientific, or Technological Courses.

IV. **THE SCHOOL OF MUSIC** has full Courses in instrumental and vocal music, and grants diplomas to those who complete any of the specified Courses.

These schools are one corporation, have one President, who has general charge, with a Principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

THE BOARD OF TRUSTEES.

CHAIRMAN, HARRY S. HOPPER, ESQ.,

28 South Third Street, Philadelphia.

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1630 Chestnut Street, Philadelphia.

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400 South Fortieth Street, Philadelphia.

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HON. SIMON P. WOLVERTON, LL. D.

Deceased.

MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement Week, at
Leisburg.

The semi-annual meeting is held on the second Thursday in January,
Philadelphia.

COMMITTEES OF THE BOARD.

COMMITTEE ON INSTRUCTION

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AND THE PRESIDENT.

THE UNIVERSITY PROPERTY.

I. THE MAIN COLLEGE.

The main College building is situated on a hill one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The building has a façade of three hundred and twenty feet. The central portion is eighty feet square, and is strengthened in front by four massive columns. On the first floor are six recitation rooms. On the second floor are the halls of the Theta Alpha and Euepia Literary Societies, Reading Room, and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western sides, respectively, of the Main Building, are each one hundred and twenty feet in length and four stories in height, and are used for students' rooms.

Several thousand dollars have been expended recently in improving the College building.

II. THE WEST COLLEGE.

The West College was erected in the year 1900. It is constructed of brick, four stories in height, trimmed with brownstone, and contains ninety-seven rooms, one of which is a hall for the use of the Young Men's Christian Asso-

ciation, and the others are designed for the residence of students.

III. THE EAST COLLEGE.

The East College is a building of brick, trimmed with brownstone. The first story is assigned to the Electrical Laboratory, with a floor surface of some twenty-five hundred feet, and to recitation rooms. The other stories contain one hundred and twelve rooms for students.

IV. THE BUCKNELL HALL.

Bucknell Hall is the Chapel of the College. In it all the students of the College meet daily for worship.

V. THE CARNEGIE LIBRARY BUILDING.

The Library building was given by the Honorable Andrew Carnegie, D. C. L., in the year 1905.

The building is sixty-four feet by ninety, built of pressed brick, and trimmed with brownstone. The center, thirty feet by ninety, is used as a reading room. At the height of sixteen feet there is a gallery extending around the room. The sides, each fifteen feet by ninety, are divided on the first floor into rooms for special collections and for offices. The second and third floors will be used for stack rooms. The building will accommodate about one hundred and fifty thousand volumes.

VI. THE OBSERVATORY.

The Observatory was erected in 1887 and enlarged in 1905. It is designed for the use of students in Practical Astronomy.

The equipment represents the latest improvements in astronomical instruments. It consists of a Clark Equatorial

Telescope of ten inches aperture and twelve and one half feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope with prism and grating by Brashear; a three-inch prismatic Transit, with a thirteen-wire movable Micrometer; a Fauth Chronograph with Bond Spring Governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a three-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretical and Practical Astronomy.

VII. THE CHEMICAL LABORATORY.

The Laboratory was erected in 1890, and is a building forty-three feet in width and eighty-six feet in length, with two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture room, with seating for one hundred and twenty-five students, and a large working room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture room and rooms for laboratory work in Organic Science; the basement has rooms for Applied Chemistry, and a fire-proof room.

VIII. THE PHYSICAL LABORATORY.

The Physical Laboratory was erected in 1902. It is a building of two stories, fifty by sixty, constructed of brick trimmed with brownstone. The basement serves for the heating and lighting plant of the institution; the main story, with one room twenty by fifty and another forty by forty-five, accommodates the Department of Physics. A large dark room was added to the equipment in 1905.

IX. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains an office for the director, rooms for students, lockers, dressing rooms, and shower baths. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height of twelve feet a running-track gallery, six feet wide, surrounds the room.

X. THE ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up for outdoor sports. In the northwest corner, at the main entrance to the College grounds, a shaded section has been set aside for tennis. The athletic field is sufficiently large for football, baseball, and lacrosse. A running track, a quarter-mile in length, has been constructed on the eastern part of the campus. The Tustin Gymnasium is located at the end of the field, so as to be near to the center of exercise, and easily accessible to the trainers and students.

XI. THE ACADEMY.

1. **The Main Building** of the Academy is situated on "College Hill," and is fifty feet in width by eighty feet in length, and three stories in height. On the first floor is a dining room, thirty feet by thirty-six feet; two recitation rooms, a reception room, and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron. The third floor is used for students' rooms, each twenty feet by twelve feet, and fourteen feet high.

2. **The East Hall** of the Academy is the Bucknell Cottage for young men, and is contiguous to the Main Building

and connected with it by a covered passageway. It is of brick, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a general study room, a recitation room, teachers' apartments, and rooms for students. The rooms have high ceilings, large double windows with inside shutters, and two commodious closets each.

Both buildings are supplied with hot and cold water, are warmed by steam, and lighted by electricity.

XII. BUILDINGS OF THE WOMEN'S COLLEGE.

The buildings and campus of this department are set apart for the use of women taking courses in the College, in the Institute, and in the School of Music.

1. **The Main Building** contains, on the first floor, an office for the Dean and the Registrar, a reception room, the office of the Director of Music, music rooms, recitation rooms, and a dining hall; on the second floor a school-room and a parlor; on the third floor, a library room, teachers' apartments, and students' rooms. The main building was enlarged, 1905, by an addition to the dining hall.

2. **The South Hall**, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately improved and equipped.

3. **The Bucknell Cottage** stands to the southwest of the Main Building, and is connected with it by an enclosed passageway. It is built of brick, in the Queen Anne style of architecture, and has dimensions of forty feet by one hundred feet. The interior is finished in natural wood, and is equipped, in matters of light, heat, and ventilation, with modern improvements.

The portion allotted to students' rooms affords accom-

modations for forty occupants. These rooms are in suites on the general plan of a center parlor, with bedrooms and closets on either side. In this building is the **Studio**, a spacious room with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

4. New Cottage for women, with a front of one hundred and twenty-eight feet and a depth of forty feet, rising three stories above the basement, was erected in 1905. It contains eighty-seven rooms.

The **Calisthenium** occupies the whole of the upper story, and has a floor surface of over four thousand feet.

All the buildings are supplied with hot and cold water, are warmed by steam, and lighted by electricity.

5. The Campus of the Women's College is separated from the main College grounds by Loomis Street.

XIII. HEATING AND LIGHTING PLANT.

A central steam heating and electric lighting plant has been erected; all the rooms, public and private, in the several buildings of the institution, are warmed and lighted from this plant.

XIV. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University.

THE COLLEGE.

THE FACULTY AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D., PRESIDENT,
AND PROFESSOR OF PSYCHOLOGY AND ETHICS.

*FREEMAN LOOMIS, A. M., PH. D.,
PROFESSOR OF MODERN LANGUAGES AND LITERATURE.

GEORGE G. GROFF, M. D., PH. D., LL. D.
PROFESSOR OF ORGANIC SCIENCE.

WILLIAM CYRUS BARTOL, A. M., PH. D.,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

FRANK ERNEST ROCKWOOD, A. M., LL. D.
PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE AND DEAN OF
THE COLLEGE.

WILLIAM GUNDY OWENS, A. M.,
PROFESSOR OF CHEMISTRY.

ENOCH PERRINE, A. M., LITT. D.,
PROFESSOR OF THE ENGLISH LANGUAGE AND LITERATURE AND SECRE-
TARY OF THE FACULTY.

THOMAS FRANKLIN HAMBLIN, A. M.,
NEW JERSEY PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

*Retired.

BUCKNELL UNIVERSITY

WILLIAM EMMET MARTIN, A. M.,
PROFESSOR OF SOCIOLOGY AND ANTHROPOLOGY.

NELSON FITHIAN DAVIS, SC. D.,
PROFESSOR OF BIOLOGY.

EPHRAIM M. HEIM, PH. D.,
PROFESSOR OF ECONOMIC AND POLITICAL SCIENCE.

GUIDO CARL LEO RIEMER, A. M., PH. D.,
PROFESSOR OF MODERN LANGUAGES.

LLEWELLYN PHILLIPS, A. M.,
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THOMAS ALPHEUS EDWARDS, A. M.,
PROFESSOR OF PEDAGOGY AND DEAN OF THE DEPARTMENT FOR WOMEN.

HENRY THOMAS COLESTOCK, A. M., PH. D.,
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FLOYD GEORGE BALLENTINE, PH. D.,
ASSISTANT PROFESSOR OF LATIN.

PAUL EMIL WEITHAASE, A. M.,
ASSISTANT PROFESSOR OF GERMAN.

BROMLEY SMITH, A. M.,
INSTRUCTOR IN ORATORY AND RHETORIC.

GEORGE STEPHEN TILLEY, A. M.,
INSTRUCTOR IN CHEMISTRY.

CHARLES FREEMAN NEVINS, A. B.,
INSTRUCTOR IN FRENCH.

FRANK EUGENE BURPEE, A. M.,
ASSISTANT PROFESSOR OF MATHEMATICS.

HAROLD MURRAY McCLURE, A. M.,
PRESIDENT JUDGE, SEVENTEENTH JUDICIAL DISTRICT,
LECTURER ON CONTRACTS AND PARTNERSHIP.

FREDERICK EVANS BOWER, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON EVIDENCE AND EQUITY.

ALBERT WILLIAM JOHNSON, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON REAL AND PERSONAL PROPERTY.

WILLIAM LEISER, M. D.,
LECTURER ON PATHOLOGY.

BUCKNELL UNIVERSITY

WEBER L. GERHART, M. D.,

LECTURER ON ANATOMY.

CHARLES ALEXANDER GUNDY, M. D.,

LECTURER ON SURGERY.

BENAIAH L. WHITMAN, LL. D.,

LECTURER ON PRACTICAL ETHICS.

WAYLAND HOYT, D. D., LL. D.,

LECTURER ON ORATORY.

WILLIAM EMMET MARTIN, A. M.,

LIBRARIAN.

WILLIAM CHRISTIAN GRETZINGER, A. M.,

REGISTRAR OF THE UNIVERSITY.

REV. CALVIN AURAND HARE, A. M.,

FINANCIAL SECRETARY.

FRANK EUGENE BURPEE, A. M.,

SUPERINTENDENT OF BUILDINGS AND GROUNDS.

ALUMNI ASSOCIATIONS

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Secretary, PROF. GUIDO CARL LEO RIEMER, PH. D., Lewisburg.

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Secretary, J. PAUL PONTIUS, M. D., Philadelphia.

The Alumni Club of New York City.

President, T. A. K. GESSLER, D. D., New York City.

Secretary, W. R. MAUL, PH. B., Brooklyn, N. Y.

The Alumni Club of Pittsburg.

President, JOHN SPEED HUTSON, D. D., Allegheny.

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President, A. R. E. WYANT, PH. D., Chicago.

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President, JOHN C. NISSLEY, A. M., ESQ., Harrisburg.

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The Alumni Club of Washington City.

President, HENRY H. BLISS, A. M., ESQ., Washington, D. C.

Secretary, A. F. ANDERSON, A. B., Washington, D. C.

The Alumni Club of Central Pennsylvania.

President, JUDGE MARTIN BELL, A. M., Hollidaysburg.

Secretary, S. F. FORGEUS, D. D., Huntingdon.

The Alumni Club of Williamsport.

President, PROF. PERCY M. BULLARD, A. B., Williamsport.

Secretary, HARRY CHESTER FITHIAN, A. M., ESQ., Williamsport.

The Alumni Club of Lewisburg.

President, ANDREW A. LEISER, A. M., ESQ., Lewisburg.

Secretary, CHARLES J. WOLFE, A. M., Lewisburg.

The Alumni Club of Sunbury.

President, GEORGE EDWARD DEPPEN, A. B., ESQ.

Secretary, CULLEN FRAZER SHIPMAN, A. B., ESQ.

NAMES OF STUDENTS.

I. GRADUATE STUDENTS.

NAME.	MAJOR SUBJECT.	RESIDENCE.
LYNDON ERNEST AYRES, A. B.,	<i>Language.</i>	Camden, N. J.
EDNA LORINE BACON, A. B.,	<i>Classics.</i>	Dividing Creek, N. J.
IRWIN ALBERT BARTHOLOMEW, SC. D.,	<i>Engineering.</i>	Philadelphia
GENUS EBERT BARTLETT, A. B.,	<i>Hebrew.</i>	Chester
AMOS ETHAN BARTON, A. B.,	<i>Organic Science.</i>	Philadelphia
ELLA BEALE, LITT. B.,	<i>Literature.</i>	Pelham Manor, N. Y.
LILLIAN BEALE, LITT. B.,	<i>Literature.</i>	Philadelphia
ELBINA LAVINIA BENDER, A. B.,	<i>Literature.</i>	Lewisburg
MARSHALL LEON BENN, SC. B.,	<i>Science.</i>	Coudersport
CLARENCE ANTHONY BERNHARD, A. B.,	<i>Jurisprudence.</i>	Hoyt
EMORY OLIVER BICKLE, A. M.,	<i>Pedagogy.</i>	New Windsor, Md.
CHARLES FRANKLIN BIDELSPACHER, A. B.,	<i>Jurisprudence.</i>	Williamsport
BENJAMIN FRANKLIN BIEBER, A. B.,	<i>Sociology.</i>	Center Hall
ELBERT LITTLE BLAKESLEE, PH. B.,	<i>Jurisprudence.</i>	Pompton Plains, N. J.
FREDERIC RUSSELL BOWER, SC. B.,	<i>History.</i>	Lewisburg
MARY ISABEL BOWER, SC. B.,	<i>Library Economics.</i>	Lewisburg
CHAUNCEY EUGENE BROCKWAY, A. B.,	<i>Jurisprudence.</i>	Sharon

NAME.	MAJOR SUBJECT.	RESIDENCE.
PETER GARFIELD COBER, A. B.,	<i>Jurisprudence.</i>	Connellsville
HAROLD NEWTON COLE, PH. B.,	<i>Organic Science.</i>	Cleveland, Ohio
ELVA SARAH COLEMAN, PH. B.,	<i>English Literature.</i>	Reynoldsville
CLARENCE BURNAP COMSTOCK, SC. B.,	<i>Jurisprudence.</i>	Lewisburg
JOHN BELMONT COOK, SC. B.	<i>Science.</i>	Factoryville
CHARLES DAVID COOPER, SC. B.,	<i>Jurisprudence.</i>	Millersville
THOMAS EDWARD CULE, PH. B.,	<i>Education.</i>	Scranton
MARGARET PROTHEROE DAVIES, SC. B.,	<i>Literature.</i>	Scranton
RAYMOND JOHN DAVIES, A. B.,	<i>History.</i>	Williamsbridge, N. Y.
JOHN GROVER DEININGER, A. B.,	<i>Hebrew.</i>	Great Valley, N. Y.
HARVEY O. DIETRICH, A. B.,	<i>Pedagogy.</i>	Kutztown
LINN CLARKE DRAKE, A. B.,	<i>Greek.</i>	Chester
EMMA REBEKAH EBLING, A. B.,	<i>Language.</i>	Williamsport
WILLIAM FREDERIC ELSESSER, A. B.,	<i>Hebrew.</i>	Philadelphia
WALLACE WILMER FETZER, PH. B.,	<i>History.</i>	Sunbury
ANNE GALBRAITH, A. B.,	<i>French.</i>	DeLand, Fla.
MARY ALMA GARRISON, A. B.,	<i>German.</i>	Penn's Grove, N. J.
AMZI WILSON GEARY, PH. B.,	<i>History.</i>	Paterson, N. J.
MARIE MAUDE GODDARD, A. B.,	<i>Classics.</i>	New Orleans, La.
LYNN SUMNER GOODMAN, A. B.,	<i>Engineering.</i>	Loganton
JOHN WALLACE GREEN, A. B.,	<i>Greek.</i>	Chester

NAME.	MAJOR SUBJECT.	RESIDENCE.
HAVARD GRIFFITH, A. B.,	<i>Hebrew.</i>	Rochester, N. Y.
LEVI MORRILL HAINER, PH. B.,	<i>History.</i>	Norristown
CARRIE JEANETTE HALFPENNY, SC. B.,	<i>Literature.</i>	Mansfield
HORACE LEROY HALL, A. B.,	<i>History.</i>	Sharon
FREDERICK B. HARDING, A. B.,	<i>Organic Science.</i>	Milton
SPENSER TILLINGHAST HARRIS, A. B.,	<i>Mathematics.</i>	Lewisburg
GEORGE WILLIAM HAWK, SC. B.,	<i>Organic Science.</i>	Tower City
AMMON GROSS HESS, SC. B.,	<i>Organic Science.</i>	Philadelphia
COIT ROSCOE HOECHST, A. B.,	<i>Modern Languages.</i>	Lewisburg
THEODORE BLAND HOY, SC. B.,	<i>Jurisprudence.</i>	Montandon
CLARA MAUDE HUMMEL, SC. B.,	<i>Literature.</i>	Rochelle Park, N. J.
ELMER AZIMA HUMMEL, A. B.,	<i>Language.</i>	Braddock
LAURA MAE HUMMEL, SC. B.,	<i>Education.</i>	Rochelle Park, N. J.
LEWIS COLUMBUS HYLBERT, A. B.,	<i>Biblical Literature.</i>	Clarksburg, W. Va.
WALTER JARRETT, SC. B.,	<i>Jurisprudence.</i>	Sunbury
WILLIAM LAWRENCE KALP, A. B.,	<i>Science.</i>	Mt. Pleasant
EDITH HEDGES KELLEY, PH. B.,	<i>Language.</i>	Blairsville
ROYAL IVAN KNAPP, A. B.,	<i>Education.</i>	Union City
EDWARD CHARLES KUNKLE, A. B.,	<i>History.</i>	Scottdale
CURTIS COOK LESHER, SC. B.,	<i>Jurisprudence.</i>	Lewisburg
LENA RUTH LESHER, A. B.,	<i>History.</i>	Northumberland

NAME.	MAJOR SUBJECT.	RESIDENCE.
MARY LILA LONG, A. B.,	<i>English Literature.</i>	Williamsport
IDA EVALINE LUCHSINGER, A. B.,	<i>History.</i>	West Pittston
ROBERT B. MACKEY, PH. B.,	<i>Organic Science.</i>	Waverly
JOSEPH CIPRIANO MACRO, A. B.,	<i>Jurisprudence.</i>	New York City
ELIZABETH BRITON MEEK, A. B.,	<i>Latin.</i>	Allenwood
JOSEPH EDWARD MILLEN, PH. B.,	<i>Literature.</i>	Burgettstown
CARL LYON MILLWARD, PH. B.,	<i>History.</i>	Mt. Pleasant
MARY MONTFORT MOLL, A. B.,	<i>English.</i>	Mahanoy City
EARL AUSTIN MORTON, A. B.,	<i>Economic Science.</i>	Dravosburg
FRANCES LEROY MCCAULEY, A. B.,	<i>New Testament Greek.</i>	Horseheads, N. Y.
ANNA ELIZABETH NOAKER, PH. B.,	<i>German.</i>	Milton
HELEN MAE OLDS, PH. B.,	<i>German.</i>	Johnsonburg
JAMES THEODORE PARK, SC. B.,	<i>History.</i>	Montandon
GILBERT SOMERS PEREZ, SC. B.,	<i>French Literature.</i>	Chicago, Ill.
WILLIAM WALLACE PORTSER, SC. B.	<i>Railroad Engineering.</i>	Greensburg
THOMAS BENJAMIN POWELL, A. B.,	<i>Church History.</i>	Scranton
LEE RUSSELL RANCK, PH. B.,	<i>Sociology.</i>	Philadelphia
CHESTER BENJAMIN RENN, A. B.,	<i>History.</i>	South Williamsport
GEORGE ALANSON RIGGS, SC. B.,	<i>History.</i>	East McKeesport
DAVID HOWARD ROBBINS, A. B.,	<i>History.</i>	Phoenixville
FREDERICK W. ROBBINS, PH. B.,	<i>History.</i>	Bethlehem

NAME.	MAJOR SUBJECT.	RESIDENCE.
LEO LAWRENCE ROCKWELL, A. B.,	<i>Latin.</i>	Monroeton
EDWIN WARREN RUMSEY, A. B.,	<i>Greek.</i>	Chester
JOHN CALVIN SANDERS, A. B.,	<i>Hebrew.</i>	Vicksburg
EDWIN WILDE SAYLOR, A. B.,	<i>Hebrew.</i>	Philadelphia
OLIVE SCHILLINGER, A. B.,	<i>Literature.</i>	Martin's Ferry, Ohio
HELEN AGATHA SELINGER, A. B.,	<i>Science.</i>	Titusville
ROBERT FRANCIS SHEPPARD, SC. B.,	<i>Jurisprudence.</i>	Cedarville, N. J.
FRANKLIN ISAAC SIGMUND, A. B.,	<i>Education.</i>	Ebensburg
JOHN YEOMAN SINTON, PH. B.,	<i>Organic Science.</i>	Philadelphia
ARTHUR ANSON SMITH, PH. B.,	<i>Jurisprudence.</i>	Williamsport
HARRY GARFIELD SNAVELY, SC. B.,	<i>Mathematics.</i>	Enhaut
CLOYD NILLIS STEININGER, SC. B.,	<i>Jurisprudence.</i>	Lewisburg
MARTHA JANE THOMAS, PH. B.,	<i>German.</i>	Frostburg, Md.
ELI SLIFER WALLS, SC. B.,	<i>Organic Science.</i>	Lewisburg
ABRAM PIERCE WALTZ, A. B.,	<i>Hebrew.</i>	Chester
ALVIN MONROE WEAVER, A. B.,	<i>Political Science.</i>	Williamsport
SAMUEL GARBER WILLIAMS, PH. B.,	<i>Jurisprudence.</i>	Waynesboro
CLIFFORD VERNON WILLIAMSON, PH. B.,	<i>Pedagogy.</i>	Perth Amboy, N. J.
FRANK L. YOST, A. B.,	<i>History.</i>	Milton
JOHN ADAM YOUNG, PH. B.,	<i>Education.</i>	Sunbury
IRWIN WELLINGTON ZIEGLER, SC. B.,	<i>History.</i>	Clearfield
Graduate Students, 101.		

II. THE SENIOR CLASS.

CLASS OF 1908.

NAME.	RESIDENCE.	ROOM.
CARLTON GILFILEN APP,	<i>Lewisburg.</i>	Lewisburg
CHARLES BALDWIN,	<i>Jenningsville.</i>	No. 76, West College
VICTOR EMERSON PIOLLETTE BARKMAN,	<i>Clearville.</i>	No. 83, West College
WALTER HENRY BERTIN,	<i>Du Boistown.</i>	No. 72, West College
ELMER KEISER BOLTON,	<i>Holmesburg.</i>	No. 35, West College
WINFIELD SCOTT BOOTH,	<i>Philadelphia.</i>	No. 24, West Wing
DANA MELISSA BOWER,	<i>Elkhart, Ind.</i>	Women's College
JOHN BENJAMIN BOYER,	<i>Mandata.</i>	No. 19, West Wing
BENJAMIN ISAAC BRODY,	<i>Punxsutawney.</i>	No. 10, West Wing
CHARLES LUCAS BROMLEY,	<i>Reading.</i>	No. 23, East Wing
CHARLES ROCKWELL COLE,	<i>Williamsport.</i>	No. 36, West College
EDWARD CARROLL CONDUCT,	<i>Trenton, N. J.</i>	Market Street
JOSEPH LEWIS COON,	<i>Bald Mount.</i>	No. 3, West Wing
WALTER MADISON CORLL,	<i>Lewisburg.</i>	South River Road
JOHN WORTH CURE,	<i>Jermyn.</i>	No. 32, East Wing
ROY SIGNOR DAUBERT,	<i>Milton.</i>	No. 14, East Wing
STEPHEN GARDNER DUNCAN,	<i>Lewisburg.</i>	South Second Street
WILLIAM STEWART DUNCAN,	<i>Duncannon.</i>	No. 24, West College
JOHN ROY FARR,	<i>Muncy.</i>	No. 90, West College

NAME.	RESIDENCE.	ROOM.
CHARLES DELANCEY FERGUSON,	<i>Canton.</i>	No. 66, West College
HELEN MARR FORREST,	<i>Lewisburg.</i>	North Second Street
HARRY STEPHEN FURST,	<i>Cedar Springs.</i>	No. 91, West College
HARRY CHESTER GARDNER,	<i>McKeesport.</i>	No. 94, West College
GEORGE ARTHUR GEBHARDT,	<i>Jermyn.</i>	St. George Street
JOHN VANDEVERE GIBNEY,	<i>Coatesville.</i>	No. 71, West College
DAVID ALBERT GREEN,	<i>Sciota.</i>	No. 17, East Wing
RALPH WOMELSDORF HALLER,	<i>Reading.</i>	No. 20, East Wing
BENJAMIN THOMAS HARRIS,	<i>Taylor.</i>	No. 65, West College
DAVID JACKSON HAWK,	<i>Tower City.</i>	No. 42, West College
JAMES FULLER HAYES,	<i>Montoursville.</i>	No. 16, West Wing
JOSEPH WELLS HENDERSON,	<i>Montgomery.</i>	No. 43, West College
JAMES HERB,	<i>Mt. Carmel.</i>	No. 67, West College
CHESTER PENN HIGBY,	<i>Philipsburg.</i>	No. 21, East Wing
JENNIE HOPWOOD,	<i>Plymouth.</i>	Women's College
JOHN CLYDE HOSTETTER,	<i>Williamsport.</i>	No. 40, West College
JOHN FARL HUMMER,	<i>Titusville.</i>	No. 21, East Wing
EDWARD RICHARDSON INNES,	<i>Canton.</i>	St. George Street
PHILIP MUSSER IREY,	<i>Warren.</i>	No. 59, West College
AELFRIC JAMES,	<i>Easton.</i>	No. 84, West College
MAE ELIZABETH JONES,	<i>Franklin.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
MARGARET ELLEN KALP,	<i>Mt. Pleasant.</i>	Women's College
GEORGE WASHINGTON KERSCHNER,	<i>Trevorton.</i>	No. 30, West Wing
ONESIMUS GEORGE LANGFORD,	<i>Factoryville.</i>	No. 24, East Wing
EDWIN IRLAND LAWSHE,	<i>Lewisburg.</i>	Third Street
JAMES LOSE, JR.,	<i>Williamsport.</i>	No. 34, West College
EDWIN REYNOLDS MANCHESTER,	<i>Scranton.</i>	No. 73, West College
JENNIE MACLAGGAN,	<i>Dallas, Texas.</i>	St. George Street
ROBERT BRUCE MORRIS,	<i>Rebersburg.</i>	No. 3, West Wing
CHESTER ARTHUR NIPLE,	<i>Sunbury.</i>	No. 48, West College
WALTER LEROY NOLL,	<i>Green Park.</i>	No. 40, West College
ELSIE OWENS,	<i>Lewisburg.</i>	South Sixth Street
MARGARET WEDDELL PANGBURN,	<i>Elizabeth.</i>	Women's College
CASIMER EMILE PERRIER,	<i>Pawtucket, R. I.</i>	No. 3, East Wing
LUTHER ORVILLE PIERSOL,	<i>Honeybrook.</i>	No. 47, West College
BEATRICE RAE RICHARDS,	<i>Scranton.</i>	Women's College
OLIVE CROZER RICHARDS,	<i>Scranton.</i>	Women's College
EDWIN LEROY ROYER,	<i>Rebersburg.</i>	No. 5, West Wing
GRACE VIRGINIA ROYER,	<i>Lewisburg.</i>	Lewisburg
BARTON RUNYAN SAVIDGE,	<i>Turbotville.</i>	No. 87, West College
MARION ELLSWORTH SAYRE,	<i>New Brighton.</i>	No. 26, East College
EDNA ALICE SEAMAN,	<i>Allentown.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
HARRY CLAUDE SEILER,	<i>Milton.</i>	Milton
JAMES FRANCIS SHEEHAN,	<i>Patton.</i>	No. 82, West College
REUBEN WELTY SHRUM,	<i>Irwin.</i>	No. 65, West College
JOSEPH RIEGEL SHULTZ,	<i>Sunbury.</i>	No. 90, West College
WALLACE JAMES SNYDER,	<i>Elmhurst.</i>	No. 20, East Wing
WILL CARLETON SPROUT,	<i>Picture Rocks.</i>	No. 8, West Wing
ANNA STAGE,	<i>Clearfield.</i>	Women's College
DONALD ALEXANDER STEELE,	<i>Washington.</i>	No. 23, West Wing
ROBERT MCCURDY STEELE,	<i>Brockwayville.</i>	No. 14, West Wing
PAUL GARFIELD STOLZ,	<i>Philadelphia.</i>	No. 15½, West Wing
JOHN RAYMOND STRATTON,	<i>Blossburg.</i>	St. George Street
HENRY CLYDE THOMPSON,	<i>Irwin.</i>	No. 16, West Wing
HELEN FULKERSON TIFFANY,	<i>Pleasant Mount.</i>	Women's College
GEORGE EDWARD WEBSTER,	<i>Glens Falls, N. Y.</i>	No. 64, West College
MERLE B. WHITNEY,	<i>Buffalo, N. Y.</i>	No. 93, West College
JOHN J. WILLIAMS,	<i>Mt. Carmel.</i>	No. 10, West Wing
VIOLETTA WOLFE,	<i>Rebersburg.</i>	Women's College
	Seniors, 78.	

III. THE JUNIOR CLASS.

CLASS OF 1909.

NAME.	RESIDENCE.	ROOM.
HENRY SNARE AFRICA,	<i>Huntingdon.</i>	University Avenue
CARLOS ALVAREZ,	<i>Quito, Ecuador.</i>	No. 11, West College
GEORGE FOSTER BAILETS,	<i>Sunbury.</i>	No. 28, East College
HENRY FRANCIS BAILEY,	<i>Monongahela.</i>	No. 82, West College
WILLIAM SAMUEL BALDWIN,	<i>Jenningsville.</i>	No. 78, West College
KATHERINE BECKLEY,	<i>Lewisburg.</i>	St. George Street
AMY VANESSA BOLLINGER,	<i>Reynoldsville.</i>	Women's College
THOMAS STEWART BRACKEN,	<i>Derry.</i>	No. 12, West College
MINNIE ELIZABETH BROBST,	<i>Sunbury.</i>	Women's College
JOHN WARD BROWN,	<i>Tunnelton, W. Va.</i>	No. 16½, East Wing
ALFRED LEE CAREY,	<i>Glen Loch.</i>	No. 30, East College
ANNA ROBERTA CAREY,	<i>Glen Loch.</i>	Women's College
ANNE FRANCES CHAFFEE,	<i>Towanda.</i>	Women's College
MYRA MAGARGEE CHAFFEE,	<i>Towanda.</i>	Women's College
ANSLEY BAILEY CLAYPOOLE,	<i>Saltsburg.</i>	No. 89, West College
HELEN DITTING CLIBER,	<i>Holidaysburg.</i>	Women's College
M. ETHEL COCKBURN,	<i>Newberry.</i>	Women's College
EDITH ABBOTT CORLIES,	<i>Philadelphia.</i>	Women's College
BELLE EMILY CRAIG,	<i>Philadelphia.</i>	South First Street

NAME.	RESIDENCE.	ROOM.
HAZEL MIRIAM CRAIG,	<i>Philadelphia.</i>	South First Street
JOSEPH EARLE EDWARDS,	<i>Wilmington, Del.</i>	No. 29, East Wing
CHARLES ELSON	<i>Kane.</i>	No. 13, East Wing
MARY EVANS,	<i>Freeland.</i>	Women's College
NEWTON CROMWELL FETTER, JR.,	<i>Reading.</i>	No. 26, West Wing
HELGE FLORIN,	<i>Johnsonburg.</i>	St. George Street
ALICE ETHEL FOUST,	<i>Milton.</i>	Milton
CLOYD ALEXANDER FREDERICK,	<i>Mifflinburg.</i>	No. 13, East Wing
WALTER SYLVANUS FRICK,	<i>Lewisburg.</i>	North First Street
CHARLES CARPENTER FRIES,	<i>Reading.</i>	No. 23, East Wing
FRANK HERMAN FRITZ,	<i>Bloomsburg.</i>	No. 88, West College
FRANK KEMP GIBSON,	<i>Minersville.</i>	No. 2, West Wing
JOHN WILLIAM GRANDFIELD,	<i>Clarksboro, N. J.</i>	No. 2, West Wing
JAMES ANDREW GROFF,	<i>Lewisburg.</i>	Lewisburg
EARL GUILFORD GUYER,	<i>Williamsport.</i>	No. 4, West Wing
MATTHEW EMERSON HAGGERTY,	<i>Nauvoo.</i>	No. 77, West College
EUNICE VIRGINIA HALL,	<i>Chinchilla.</i>	Women's College
MILFORD SCOTT HALLMAN,	<i>Mapleshade.</i>	No. 12, West Wing
JOSEPHINE ADELAIDE HANKINS,	<i>Uniontown.</i>	Women's College
CLARA ELEANOR HARMAN,	<i>Montoursville.</i>	Women's College
KATHERINE ELIZABETH HEINEN,	<i>Milton.</i>	Milton

NAME.	RESIDENCE.	ROOM.
JOHN AMMON HESS,	<i>Winfield.</i>	Winfield
CHARLES EDGAR HILBISH,	<i>Northumberland.</i>	No. 27, East Wing
CHARLOTTE HULLEY,	<i>Lewisburg.</i>	South Fourth Street
WILLIAM CURRIE HULLEY, JR.,	<i>Lewisburg.</i>	South Fourth Street
DONCASTER GEORGE HUMM,	<i>Puncsutawney.</i>	No. 55, West College
HAROLD L. HUNTER,	<i>Oil City.</i>	No. 92, West College
WILMER C. JOHNSON,	<i>Downingtown.</i>	No. 68, West College
LEON ALLISON JONES,	<i>Buffalo, N. Y.</i>	No. 23, West Wing
RACHEL ALLIE KANARR,	<i>Lancaster.</i>	Lewisburg
RILEY HARRISON KAUFFMAN,	<i>Shamokin Dam.</i>	Shamokin Dam
CHARLES WYANT KRAMER,	<i>Oil City.</i>	No. 86, West College
WILLIAM LEISER, 3D,	<i>Lewisburg.</i>	North Fourth Street
GIRTON KELLER LENHART,	<i>Lewisburg.</i>	Lewisburg
MARTHA D. LEOPOLD,	<i>Milton.</i>	Milton
CHARLES JOHN LEPPERD,	<i>Duncannon.</i>	No. 28, West Wing
CHARLES OSNER LONG,	<i>Sunbury.</i>	No. 18, East College
VICTOR BALTZER LUCHSINGER,	<i>West Pittston.</i>	No. 95, West College
CHARLES RICHARD MALLERY,	<i>Juniata.</i>	No. 10, East Wing
JOHN HENRY MATHIAS,	<i>Philadelphia.</i>	No. 52, West College
EDNA LILLIAN MEACHAM,	<i>Montandon.</i>	Montandon
HANNAH BEMIS MERVINE,	<i>Milton.</i>	Milton

NAME.	RESIDENCE.	ROOM.
MARY MATILDA MEYER,	<i>Rebersburg.</i>	Women's College
DAVID WALTER MOORE,	<i>Milton.</i>	Milton
GERTRUDE ADELLA MYERS,	<i>Williamsport.</i>	Sixth Street
CHARLES AUGUSTUS NYBERG,	<i>New York City.</i>	No. 25, West Wing
CHARLES O'BRIEN,	<i>Nanticoke.</i>	No. 51, West College
ALBERT WAFFLE OWENS,	<i>Lewisburg.</i>	South Sixth Street
GUY PAYNE,	<i>Titusville.</i>	No. 8½, East Wing
ROY HILL PHILSON,	<i>Berlin.</i>	No. 81, West College
ALBERT THEODORE POFFENBERGER, JR.,	<i>Sunbury.</i>	No. 45, West College
WILLIAM HARRY POSTEN,	<i>Navesink, N. J.</i>	No. 2, East Wing
ALLAN GERALD RITTER,	<i>South Williamsport.</i>	No. 77, West College
STANLEY HERBERT ROLFE,	<i>Nanticoke.</i>	No. 60, West College
EVAN DE LA PLANE ROSER,	<i>Woodsboro, Md.</i>	No. 25, East Wing
CHARLES STILWELL ROUSH,	<i>Lewisburg.</i>	Lewisburg
PAUL JASPER SANDERS,	<i>Vicksburg.</i>	No. 14, East Wing
LEONORA MAE SHAMP,	<i>Lewisburg.</i>	St. Catherine Street
ROBERT JACOBI SIMINGTON,	<i>Moorestburg.</i>	No. 3, East College
IDA MABEL SLOUT,	<i>Newberry.</i>	Women's College
HARRY SMITH,	<i>Nanticoke.</i>	No. 4, West College
STANTON REINHART SMITH,	<i>Stroudsburg.</i>	No. 17 East Wing
IRVIN ALLEN TIMLIN,	<i>Clarion.</i>	No. 1, East Wing

NAME.	RESIDENCE.	ROOM.
GERTRUDE MAE TOWNSEND,	<i>Wilmington, Del.</i>	Women's College
GERTRUDE LILLIAN TURNER,	<i>Philadelphia.</i>	Women's College
EUGENE VAN WHY,	<i>Stroudsburg.</i>	No. 17, East Wing
MYRTLE HARGRAVE WALKINSHAW,	<i>Greensburg.</i>	Women's College
HARRY MORRISS WALTER,	<i>Harrisburg.</i>	South River Road
SARA ELLEN WALTERS,	<i>Lewisburg.</i>	Women's College
NALA DAMAYANTI WEBB,	<i>Rutherford, N. J.</i>	Women's College
AMELIA MARGARET WENSEL,	<i>Lewisburg.</i>	South Sixth Street
GEORGE NORMAN WILKINSON,	<i>Williamsport.</i>	No. 85, West College
WARREN TYSON WILSON,	<i>Du Bois.</i>	St. George Street

Juniors, 92.

IV. THE SOPHOMORE CLASS.

CLASS OF 1910.

NAME.	RESIDENCE.	ROOM.
PAUL JAMES ABRAHAM,	<i>Smithfield.</i>	No. 14, East College
MINNIE MAY ANDREWS,	<i>North Girard.</i>	Women's College
KATHARINE ETHEL BAILEY,	<i>Wellsboro.</i>	Women's College
JOHN CHARLES BANK,	<i>Newark, N. J.</i>	No. 11, West Wing
CONRAD LESLIE BASKINS,	<i>North Platte, Neb.</i>	No. 19, West College
FLOYD DAYTON BEEMER,	<i>Clark's Summit.</i>	No. 76, West College
PORTER LLOYD BENSON,	<i>Waterford.</i>	No. 15, West Wing
WILHELMINA BODLER,	<i>Germania.</i>	Women's College
HARRIET KREMER BOWER,	<i>Lewisburg.</i>	South Sixth Street
EARL HARLAMAN BOWMAN,	<i>Allentown.</i>	No. 23, West College
FREDERIC WILLIAM BREIMEIER,	<i>Trevorton.</i>	No. 32, West Wing
ROBERT HARRIS BUTCHER,	<i>Salem, N. J.</i>	No. 27, West College
CAMERON A. BUTT,	<i>New Midway, Md.</i>	No. 31, West Wing
GEORGE FRANK CASE,	<i>Troy.</i>	No. 62, West College
MILDRED BLACKWELL CATHERS,	<i>Flemington, N. J.</i>	Women's College
MAITE SWASEY CATHRALL,	<i>West Pittston.</i>	Women's College
JANE CHAPMAN,	<i>Pittsburg.</i>	Women's College
JAMES FRANCIS CLARKE,	<i>Kane.</i>	No. 9, East Wing
JOSEPH LESLIE CONOVER,	<i>Millville, N. J.</i>	No. 4, East Wing

NAME.	RESIDENCE.	ROOM.
ALLAN WILSON DAWSON,	<i>Montoursville.</i>	No. 14, West Wing
WINNIE VIOLA DICKSON,	<i>Akron, Ohio.</i>	Women's College
GEORGE PARSON DRUCKENMILLER,	<i>Sunbury.</i>	Sunbury
FRANK SAUNDERS EAKELEY,	<i>Newark, N. J.</i>	No. 7, East Wing
HARRY MARSHAL EAKELEY,	<i>Newark, N. J.</i>	No. 11, East Wing
ISAAC NEWTON EARLE, JR.,	<i>Brookville.</i>	No. 28, East Wing
RAYMOND EASTWOOD,	<i>Burlington, N. J.</i>	No. 11, East College
C. PARK EDMUNDS,	<i>Mill Village.</i>	No. 15, West Wing
GILBERT HAVEN FAGLEY,	<i>Mt. Carmel.</i>	No. 46, West College
GEORGE CAMPBELL FETTER,	<i>Reading.</i>	No. 26, West Wing
NORMAN BUCKLAND GARDNER,	<i>Johnstown.</i>	No. 27, East College
WILLIAM HAYES GATEHOUSE,	<i>Lewisburg.</i>	North Second Street
BERTHA LAYCOCK GEIS,	<i>Belvidere, N. J.</i>	South Third Street
MABEL CORNELIA GIBSON,	<i>Ulysses.</i>	Lewisburg
MACARTHUR GORTON,	<i>Smithport.</i>	No. 58, West College
RAYMOND FISHER HAIN,	<i>Bernville.</i>	No. 23, East College
JOHN WESLEY HALLIWELL,	<i>Kane.</i>	No. 52, West College
HELEN HARE,	<i>Lewisburg.</i>	University Avenue
EDWARD STANLEY HARTSHORN,	<i>Perth Amboy, N. J.</i>	No. 56, West College
HOMER BLAINE HEDGE,	<i>Scenery Hill.</i>	No. 15, East College
DAISY VALLEY HEGARTY,	<i>Madera.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
WILLIAM SMITH HOGSETT,	<i>Uniontown.</i>	No. 53, West College
JAMES ROSCOE HUSTON,	<i>Tioga Centre, N. Y.</i>	No. 61, West College
FRANK MURRAY JENNER,	<i>Troy.</i>	No. 11, East Wing
MABEL ELIZABETH JOHNSON,	<i>Mt. Carmel.</i>	Women's College
ROBERT LYNES JONES,	<i>Franklin.</i>	No. 22, West College
ARTHUR PAUL KOHLER,	<i>Pitcairn.</i>	No. 28, West Wing
HOMER DAVID KRESGE,	<i>Scranton.</i>	No. 32, West Wing
EMILY ANGELINE LANE,	<i>Lane's Mill.</i>	Women's College
MICHAEL LEONARD MAHER,	<i>Port Allegheny.</i>	No. 26, East Wing
GEORGE STANLEY METZGER,	<i>Montgomery.</i>	No. 16, East Wing
ROY MIKLE,	<i>Harrisburg.</i>	No. 54, West College
GEORGE FREDERICK MITCH,	<i>Philadelphia.</i>	No. 4, West Wing
MICHAEL J. McDONOUGH,	<i>Westmoor.</i>	No. 4, East Wing
SARAH MCFARLAND,	<i>Watsontown.</i>	Watsontown
JENNIE FREDA MOHRING,	<i>Lancaster.</i>	Women's College
GEORGE HOWARD NORTHROP,	<i>Monroeton.</i>	No. 11, East Wing
FRANK HALFPENNY PAINTER,	<i>Muncy.</i>	Lewisburg
WEAVER WEDDEL PANGBURN,	<i>Elizabeth.</i>	No. 69, West College
RUBY GEORGIA PIERSON,	<i>Clifton Forge, Va.</i>	Women's College
NEWTON RITNER QUINTON,	<i>Ariel.</i>	No. 7, East Wing
PHILIP A. RANDLE,	<i>Philadelphia.</i>	No. 9, West College

NAME.	RESIDENCE.	ROOM.
SARAH LOWRY RAUP,	<i>Milton.</i>	Milton
SARAH MATILDA RAY,	<i>Pittsburg.</i>	Women's College
EDWARD ALONZO RICH,	<i>Du Bois.</i>	No. 3, East Wing
HUGH ELLIS ROSER,	<i>Woodsboro, Md.</i>	No. 25, East Wing
KLEINE HARLAN ROYER,	<i>Rebersburg.</i>	No. 5, West Wing
ROBERT JACOB SAYLOR,	<i>Woodsboro, Md.</i>	No. 31, West Wing
GEORGE BARTLEY SCHROYER,	<i>Lancaster.</i>	No. 26, West College
WILLIAM JOSEPH SCHULTZ,	<i>Lewisburg.</i>	South Fifth Street
CLARA LENORA SHELLHAMER,	<i>New Ringgold.</i>	Women's College
ALEXANDER SHERWOOD,	<i>Waterford.</i>	No. 19, West Wing
CHARLES NORMAN SILMAN,	<i>St. Marys.</i>	No. 49, West College
MARY SLAWSON,	<i>Tunkhannock.</i>	Women's College
EUGENE PAUL SMITH,	<i>Bloomsburg.</i>	No. 18, West Wing
WESLEY LEE SPROUT,	<i>Picture Rocks.</i>	No. 8, West Wing
FLORENCE VIRGINIA STAUFFER,	<i>Millville, N. J.</i>	Women's College
HOPE BIEBER STERNER,	<i>Dewart.</i>	Dewart
ALBERT KNOX STOCKEBRAND,	<i>Lititz.</i>	No. 6, East Wing
GEORGE THORNLEY STREET, JR.,	<i>North Braddock.</i>	No. 28, West Wing
ELSIE MAE TEED,	<i>Oregon Hill.</i>	Women's College
CHESTER JOSEPH TERRILL,	<i>Peter's Creek.</i>	No. 32, West Wing
MANLEY TOLBERT,	<i>Athens.</i>	No. 4, West College

NAME.	RESIDENCE.	ROOM.
LOUIS JAMES VELTE,	<i>Philadelphia.</i>	No. 30, East Wing
EMANUEL WARMKESSEL,	<i>Landingville.</i>	No. 18, East Wing
GRACE ETHEL WATKINS,	<i>Scranton.</i>	Women's College
EVA EUNICE WEDDLE,	<i>West Newton.</i>	Women's College
GEORGIA LUCETTA WEDDLE,	<i>West Newton.</i>	Women's College
ARTHUR ANTHONY WERNER,	<i>St. Marys.</i>	No. 50, West College
MAX CONRAD WIAANT,	<i>Connellsville.</i>	No. 17, East College
VIOLA EDNA WILHELM,	<i>Philadelphia.</i>	Women's College
IDA KATHERINE WILLIAMS,	<i>Reynoldsville.</i>	Women's College
RALPH GEORGE WINEGARDNER,	<i>Muncy.</i>	St. George Street
VICTOR H. WINTEROWD,	<i>Indianapolis, Ind.</i>	No. 8, West College
ELMER BILLINGFELT WOODS,	<i>Reading.</i>	No. 32, West Wing
FRANK SCHULL WOOLSON,	<i>Fishing Creek, N. J.</i>	Lewisburg
CORA MAY WRIGHT,	<i>Lewisburg.</i>	South Fifth Street
HEBER WILKINSON YOUNGKEN,	<i>Quakertown.</i>	No. 5, East Wing
DANIEL HARVEY ZARTMAN,	<i>Shamokin.</i>	No. 2, East Wing
	Sophomores, 98.	

THE FRESHMAN CLASS.

CLASS OF 1911.

NAME.	RESIDENCE.	ROOM.
HUGH WESLEY ALGER,	<i>Rome.</i>	No. 12, West Wing
ELMER MATLOCK APP,	<i>Haddonfield, N. J.</i>	No. 17, West Wing
JOHN HERBERT ARNOLD,	<i>Houtzdale.</i>	No. 27, West Wing
WILLIAM NEIL BAKER,	<i>Lewisburg.</i>	Market Street
ELI ROE BARTOO,	<i>Mills.</i>	Lewisburg
HARRY STEVENS BASTIAN,	<i>Montgomery.</i>	No. 8, East Wing
ARTHUR THOMAS BAUMER,	<i>New Columbia.</i>	New Columbia
GLENN ROMEYNE BENNETT,	<i>Clifford.</i>	South Third Street
PAUL BOORD,	<i>Uniontown.</i>	No. 20, West Wing
KATHARINE VIRGINIA BRONSON,	<i>Salem, N. J.</i>	Women's College
GROVER NEVIN BROWN,	<i>Friedensburg.</i>	No. 8, East College
WALTER EDMUND BROWNE,	<i>Jersey City, N. J.</i>	No. 27, West College
CHARLES NORMAN BRUBAKER,	<i>Liverpool.</i>	No. 19, East College
KATHARINE GRAY CARPENTER,	<i>Woodbury, N. J.</i>	Women's College
RICHARD CHAMPION,	<i>Millville, N. J.</i>	No. 24, East Wing
MARGARET CHAPPELL,	<i>Scranton.</i>	Women's College
RASMUS CLAUSEN, JR.,	<i>Steelton.</i>	No. 31, East Wing
NORRIS IRA CRAIG,	<i>Lewisburg.</i>	Lewisburg
GRACE BUCHANAN COBB,	<i>Coudersport.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
HARRY RANKIN COULSON,	<i>Donora.</i>	No. 15, West College
NELSON KENNEDY CROSSMAN,	<i>Whites Valley.</i>	No. 21, West Wing
JOSEPH LESLIE CROWELL,	<i>Perth Amboy, N. J.</i>	No. 7, East College
HELEN WINIFRED CURE,	<i>Jermyn.</i>	Women's College
MARGARET CURTIS,	<i>Montrose.</i>	Women's College
SIDNEY PHILIP DAVIS,	<i>Milton.</i>	Milton
RAYMOND CALEB DECKER,	<i>Kimbles.</i>	No. 21, East Wing
WOODS FREDERICK DERR,	<i>Watsonstown.</i>	No. 12, East Wing
BERTHA DIETRICH,	<i>Chester.</i>	Women's College
WALTER WILLIAM DUFF,	<i>Edenburg.</i>	No. 7, West College
ELDEEDGE DALE DURELL,	<i>Reading.</i>	No. 22, East Wing
FLORENCE ESTELLE DYER,	<i>Harrisburg.</i>	Women's College
ARTHUR CLAY FAIRCHILDS,	<i>Towanda.</i>	No. 13, West Wing
WALTER MARION FARROW,	<i>Shamokin.</i>	No. 38, West College
ROY AUSTIN FETTERMAN,	<i>Centralia.</i>	No. 28, East Wing
ALLAN MANCHESTER FITCH,	<i>Factoryville.</i>	No. 32, East Wing
JENNIE HAZEL FOX,	<i>Loyalsock.</i>	Women's College
ROHE CHAMBERS FREE,	<i>Du Bois.</i>	No. 9, East College
ARAMINTA GALLEY,	<i>Mount Pleasant.</i>	Women's College
BURGESS ALLEN GIBSON,	<i>Washingtonville.</i>	No. 2, East College
MERNA JULIA GIFFIN,	<i>Port Richmond, N. Y.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
LEON WILLIAMS GODSHALL,	<i>Philadelphia.</i>	No. 74, West College
MATILDA YOUNG GOLDING,	<i>Lawrenceville, N. J.</i>	Women's College
JOHN WILLIAM GREEN,	<i>Saltsburg.</i>	No. 1, East College
WILLIAM CASSIUS GRIMES,	<i>West Brownsville.</i>	No. 15, West College
FRANK THOMAS HAMIL,	<i>New Florence.</i>	No. 22, East Wing
EDITH HARPEL,	<i>Mt. Carmel.</i>	Women's College
JESSE CARLL HARRIS,	<i>Salem, N. J.</i>	No. 78, West College
LESTER ABRAHAM HARRIS,	<i>Lewisburg.</i>	Market Street
CHARLES HUNTER HEACOCK,	<i>Turbotville.</i>	No. 18, East College
CLARENCE WILLIS HERBERT,	<i>Muncy.</i>	No. 14, West College
JOHN CLARENCE HILBISH,	<i>Northumberland.</i>	No. 27, East Wing
BARON FARLEY HILTON,	<i>Oil City.</i>	No. 5, West College
HENRY LUCIEN HODGE,	<i>Olyphant.</i>	No. 15, East Wing
HARRY SHANER HOFFMAN,	<i>Sunbury.</i>	Sunbury
EDWARD LEISERING HOWELL,	<i>Northumberland.</i>	No. 70, West College
ELIZABETH WILSON HUGHES,	<i>Avalon.</i>	Women's College
LENORE MONTGOMERY HULSIZER,	<i>Milton.</i>	Milton
ANDREW JOHN HUSTON,	<i>Tioga Center, N. Y.</i>	No. 57, West College
MARY JAMESON,	<i>Danville.</i>	Women's College
LEROY JOHNSON,	<i>Lewisburg.</i>	Lewisburg
ELIZABETH S. KATES,	<i>Millville, N. J.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
GEORGE OREN KEISER,	<i>West Milton.</i>	West Milton
JOHN RAY KEISER,	<i>West Milton.</i>	West Milton
RAYMOND MINER KENDALL,	<i>Waterford.</i>	No. 9, West Wing
JOSEPH HENRY KERR, JR.,	<i>Uniontown.</i>	No. 10, West College
WILLIAM HEINEN KRAUSER,	<i>Milton.</i>	Milton
JULIA ALLEN KREMER,	<i>Watsontown.</i>	Watsontown
STANLEY LAWRENCE KRESKY,	<i>Scranton.</i>	No. 18, West College
GEORGE WILLIAM LAWRENCE,	<i>Pennington, N. J.</i>	No. 79, West College
WALTER SCOTT LEACH,	<i>New Bethlehem.</i>	No. 41, West College
JOHN VANDLING LEIGHOU,	<i>Northumberland.</i>	No. 22, West Wing
FLORENCE RUTH LELAND,	<i>Washington, D. C.</i>	Women's College
WILLIAM ANDERSON LESHER,	<i>Benton.</i>	No. 22, West Wing
FREDERICK BRYTON LITTLE,	<i>Uniontown.</i>	No. 20, West Wing
HERBERT SPENCER LLOYD,	<i>Wilkes-Barre.</i>	No. 12, East Wing
ROY ALLEN LONG,	<i>Northumberland.</i>	No. 24, East College
CHARLES LOSE, JR.,	<i>Williamsport.</i>	No. 32, West College
CHARLES LOVELAND, JR.,	<i>Hammonton, N. J.</i>	No. 20, West College
ROBERT LOWRY,	<i>Scranton.</i>	No. 33, West College
WALTER HERTZ MANN,	<i>Sunbury.</i>	Sunbury
ARTHUR ORLO MARSH,	<i>Titusville.</i>	No. 75, West College
SARA E. MEYER,	<i>Rebersburg.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
CHARLES EDWARD MILLER,	<i>Sharpsburg.</i>	No. 51, West College
LOUISE ADALINE MILLER,	<i>Montrose.</i>	Women's College
RAY EDWARD MILLER,	<i>Wiconisco.</i>	No. 19, East Wing
JAY DEPUÉ MINGOS,	<i>Monroeton.</i>	No. 11, East Wing
BLAINE JAMES MORGAN,	<i>Robertsdale.</i>	No. 13, West Wing
FRED MCALLISTER,,	<i>West Pittston.</i>	No. 9, East Wing
NORMAN BLAIR MCANULTY,	<i>Barnesboro.</i>	No. 31, West College
EVELYN HOPE MCCASKIE,	<i>East Orange, N. J.</i>	Women's College
HELEN BROWN MCCLURE,	<i>Watsonstown.</i>	Watsonstown
WILLIAM McCULLEN,	<i>Philadelphia.</i>	No. 17, West Wing
LEROY MACFARLAND,	<i>Trenton.</i>	No. 21, East College
FRANK CLARENCE MCNAIR,	<i>Philadelphia.</i>	No. 32, East Wing
HAROLD MCCLURE NEFF,	<i>Sunbury.</i>	No. 19, East Wing
NORMAN GOULD OLIVER,	<i>Burlington, N. J.</i>	No. 12, East College
JOHN WATSON PEOPLES,	<i>Jersey Shore.</i>	Allenwood
CLARENCE KEISER PUGH,	<i>Pottsville.</i>	No. 30, West Wing
GRETCHEN ANNETTE RADACK,	<i>Titusville.</i>	Women's College
ELEANOR GRAHAM RAUP,	<i>Milton.</i>	Milton
DORA MEACHAM RAYMOND,	<i>Coudersport.</i>	Women's College
WILLIAM FRANKLIN REDCAY,	<i>Reading.</i>	No. 10, East College
WALTER DANIEL RHOADES,	<i>Allentown.</i>	No. 29, West Wing

NAME.	RESIDENCE.	ROOM.
NAROLA ELIZABETH RIVENBURG,	<i>Kohima, Assam.</i>	Women's College
NICHOLAS WHITEMAN ROSENBERG,	<i>Uniontown.</i>	No. 4, East College
MABEL ROSENSTEEL,	<i>Scottdale.</i>	Women's College
JOHN ORAM LYTE ROSEB,	<i>Woodsboro, Md.</i>	No. 25, East Wing
KATHRYN MARIE RYAN,	<i>Asbury Park, N. J.</i>	Women's College
EDGAR ANDREW SABLE,	<i>Nanticoke.</i>	No. 27, West Wing
RUTH SUMMERS SAFFORD,	<i>Montrose.</i>	Women's College
WARREN BURD SCHENCK,	<i>Trenton, N. J.</i>	No. 7, East Wing
HELEN ANNA CLARE SCOTT,	<i>Seranton.</i>	Women's College
PAUL DANIEL SCHREIBER,	<i>Allentown.</i>	No. 29, West Wing
FLOYD GEORGE SCHULER,	<i>Warren.</i>	No. 9, West Wing
GEORGE PATRICK SHIELDS,	<i>Oil City.</i>	No. 6, West College
PAUL REVERE SHIELDS,	<i>Du Bois.</i>	No. 9, East Wing
FRANCIS FINLETTER SHOEMAKER,	<i>La Porte.</i>	South Fourth Street
JOHN GURNEY SHOLL, JR.,	<i>Burlington, N. J.</i>	No. 6, East College
LYMAN CYRUS SHREVE,	<i>Erie.</i>	No. 80, West College
ROBERT DEAN SISSON,	<i>Factoryville.</i>	No. 31, East Wing
FRED WILLIAM SMALL,	<i>Hammonton, N. J.</i>	No. 24, West Wing
EDGAR AMBROSE SNYDER,	<i>Weaversville.</i>	No. 5, East College
PAUL CLINTON SNYDER,	<i>Numidia.</i>	No. 5, East Wing
JESSE KIMMEL SPURGEON,	<i>Uniontown.</i>	No. 15, East Wing

NAME.	RESIDENCE.	ROOM.
STUART WILLIAMS SWEET,	<i>Utica, N. Y.</i>	No. 20, East College
BENJAMIN RUSSELL THATCHER,	<i>Unionville.</i>	No. 29, East College
EVAN WELLING THOMAS,	<i>Lewisburg.</i>	Lewisburg
JONAS TUMAN,	<i>Atlantic Highlands, N. J.</i>	No. 6, West Wing
JAMES ARTHUR TYSON,	<i>Montgomery.</i>	No. 16, East Wing
JOSE ANDRES VILLALON,	<i>Puerto Plata, W. I.</i>	No. 30, West College
CHESTER AVERY WAGE,	<i>Factoryville.</i>	No. 18, West Wing
EARL GLADSTONE WATKINS,	<i>Scranton.</i>	No. 22, East College
PALMER MARTIN WAY,	<i>Cape May Court House, N. J.</i>	No. 53, West College
VERNA AMANDA WHITAKER,	<i>Millville, N. J.</i>	Women's College
HOWARD MORGAN WILLIAMS,	<i>Uniontown.</i>	No. 37, West College
STANLEY MORTON WINTER,	<i>Nanticoke.</i>	No. 39, West College
WESLEY AMBROSE WOLFFE,	<i>Kittanning.</i>	No. 39, East Wing
EDWARD REIMING WOOD,	<i>Jersey Shore.</i>	No. 25, West College
	<i>Freshmen, 138.</i>	

VI. UNCLASSIFIED STUDENTS.

NAME.	RESIDENCE.	ROOM.
F. A. BERKENSTOCK,		Dewart
	<i>Ludlow.</i>	
HARRY BLAIR,		No. 21, West College
	<i>Mifflinburg.</i>	
WALTER ERNEST DEATS,		No. 44, West College
	<i>Pittstown, N. J.</i>	
MARGARET DOUGAL,		Milton
	<i>Milton.</i>	
CLARENCE HESS ENGLE,		No. 16, West Wing
	<i>Mt. Joy.</i>	
HARRY CAUM HAINES,		No. 63, West College
	<i>Mt. Ephraim.</i>	
SAMUEL LEVI HANAWALT,		West Market Street
	<i>Lewisburg.</i>	
STELLA HOUGHTON,		Lewisburg
	<i>Lewisburg.</i>	
AERIEL KROMER,		Milton
	<i>Milton.</i>	
CHESTER PRESTON LEWIS,		Milton
	<i>Orwell.</i>	
GILBERT HARDING LYTE,		No. 29, West College
	<i>Millersville.</i>	
ALICE PLATT		Women's College
	<i>New Haven, Conn.</i>	
EDWARD C. REBER,		No. 17, West College
	<i>Vineland, N. J.</i>	
PRESTON METTLER SAVIDGE,		No. 21, West College
	<i>Sunbury.</i>	
PAUL LEWIS SILVIUS,		Sunbury
	<i>Sunbury.</i>	
ANNA SMITH,		Milton
	<i>Milton.</i>	
HARRY LEE SMITH,		Lewisburg
	<i>Lewisburg.</i>	
MOLLIE DOUGAL SMITH,		Milton
	<i>Milton.</i>	
ELIZABETH STAGE,		Women's College
	<i>Clearfield.</i>	

NAME.	RESIDENCE.	ROOM.
ANNE STEINFIRST,	<i>Titusville.</i>	Women's College
KATHALYN VOORHIS,	<i>Paterson.</i>	Women's College
MELLIE ARMSTRONG WESTCOTT,	<i>Camden, N. J.</i>	Women's College

Unclassified Students, 22.

VII. PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
WALTER ATKINSON,	<i>Lewisburg.</i>	Lewisburg
HORACE RICHARDS BARNES,	<i>Norristown.</i>	No. 6, East Wing
ELMER ELLSWORTH KELL,	<i>Shade Gap.</i>	South Third Street
WENDELL MARKLE,	<i>Uniontown.</i>	No. 10, West College
IDA MCFADDEN,	<i>Uniontown.</i>	Women's College
VIOLET D. NISBIT,	<i>West Pittston.</i>	Women's College
FREDERICK RICHARD SCHERER,	<i>Berwick.</i>	Berwick
JAMES A. WALL,	<i>Lewisburg.</i>	South First Street
HYMAN MAYOR WEINSTEIN,	<i>Kersey.</i>	No. 6, West Wing

Pursuing Select Studies, 9.

SUMMARY.

Graduate Students	101
The Senior Class	78
The Junior Class	92
The Sophomore Class	98
The Freshman Class	138
Unclassified Students	22
Special Students	9
<hr/>	
Total in the College	538

ADMISSION OF STUDENTS

TO FRESHMAN STANDING.

EXAMINATIONS.

Examinations for admission to the Freshman Class are held on Monday of Commencement week. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each year. In special cases candidates may be examined and admitted at other times in the year.

There must be furnished to the President by the candidate satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismission must be presented. But no student from another college will be admitted except at the beginning of the Academic year.

The required age for admission to the Freshman Class is fifteen years.

I. GENERAL REQUIREMENTS.

Candidates for admission to any of the Courses must pass examinations in the following:

1. ENGLISH.

- a.* Writing from dictation.
- b.* English Grammar.
- c.* Elements of Rhetoric—Invention, Style, and Punctuation.
- d.* A brief composition upon a subject assigned at the time of the examination. No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

e. **Reading.**—A certain number of books are set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of

several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of Rhetoric.

In 1908: Shakspeare's *Merchant of Venice*, the Sir Roger de Coverley Papers in the *Spectator*, Goldsmith's *Vicar of Wakefield*, Irving's *Goldsmith*, Coleridge's *Ancient Mariner*, Scott's *Ivanhoe* and *Lady of the Lake*, Carlyle's *Essay on Burns*, Tennyson's *Idylls of the King*, Lowell's *Vision of Sir Launfal*, and George Eliot's *Silas Marner*.

In 1909: Shakspeare's *The Merchant of Venice* and *Julius Cæsar*, Bunyan's *The Pilgrim's Progress*, Part I, The Sir Roger de Coverley Papers in the *Spectator*, Scott's *The Lady of the Lake* and *Ivanhoe*, Irving's *Sketch Book*, Macaulay's *Lays of Ancient Rome*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*, George Eliot's *Silas Marner*.

In 1910: Shakspeare's *The Merchant of Venice* and *Julius Cæsar*, The Sir Roger de Coverley Papers in the *Spectator*, Franklin's *Autobiography*, Scott's *The Lady of the Lake* and *Ivanhoe*, Irving's *Sketch Book*, Macaulay's *Lays of Ancient Rome*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *the Passing of Arthur*, George Eliot's *Silas Marner*.

In 1911: Shakspeare's *The Merchant of Venice* and *Julius Cæsar*, The Sir Roger de Coverley Papers in the *Spectator*, Goldsmith's *The Vicar of Wakefield*, Scott's *The Lady of the Lake* and *Ivanhoe*, Irving's *Sketch Book*, Macaulay's *Lays of Ancient Rome*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*, George Eliot's *Silas Marner*.

f. Study and Practice. This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination will be:

In 1908: Shakspeare's *Macbeth* and *Julius Cæsar*, Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*, Burke's *Speech on Conciliation with America*, and Macaulay's *Essays on Milton*, *Addison*, and *Johnson*.

1909, 1910, and 1911: Shakspeare's *Macbeth*, Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*, Burke's *Speech on Conciliation with America*, or *Washington's Farewell Address* and *Webster's First Bunker Hill Oration*.

The candidate is advised to do reading parallel and subsidiary to the books mentioned above; he is recommended to commit to memory as much English poetry as possible, and to pay close attention to the essentials of Grammar.

2. MATHEMATICS.

- a.* Arithmetic, including the Metric System;
- b.* Algebra, including Quadratic Equations. The requirements in this study include the treatment of Radicals.
- c.* Plane Geometry.

3. LATIN.

- a.* Latin Grammar;
- b.* Latin Prose Composition;
- c.* Four books of Cæsar's Commentaries.

4. HISTORY.

- a.* History of Greece;
- b.* History of Rome;
- c.* History of the United States.

5. SCIENCE.

- a.* Physiology;
- b.* Physics;
- c.* Geography—Descriptive and Political, and Physical.

6. FREE-HAND DRAWING.

II. PARTICULAR REQUIREMENTS.

A. To enter the Classical Course, the candidate, in addition to the General Requirements, must pass examinations in the following:

1. GREEK.

- a.* Greek Grammar;
- b.* Greek Prose Composition;
- c.* Greek Reader;
- d.* Four Books of Xenophon's Anabasis.
- e.* Three Books of Homer's Iliad.

2. LATIN.

- a.* Seven Orations of Cicero;
- b.* Six Books of the Æneid;
- c.* Ovid, 1200 lines.

B. To enter the Latin division of the Philosophical Course, or the Course in Jurisprudence, the candidate, in addition to the General Requirements, must pass examination in the following:

1. LATIN.

- a.* Seven Orations of Cicero;
- b.* Six Books of Æneid;
- c.* Ovid, 1200 lines.

2. Any six units selected from group E.

C. To enter the Greek division of the Philosophical Course, the candidate, in addition to the General Requirements, must pass examination in the following:

1. GREEK.

- a.* Greek Grammar;
- b.* Greek Prose Composition;
- c.* Greek Reader;
- d.* Four Books of Xenophon's Anabasis;
- e.* Three Books of Homer's Iliad.

2. Any six units selected from group E.

D. To enter the General Science Course, the Course in Biology, the Course in Chemistry, or the Course in Civil or in Electrical Engineering, the candidate, in addition to the General Requirements, must pass examination in the following:

1. GERMAN OR FRENCH.

The Grammar of the Language, Composition, and Translation at sight of easy prose (three units).

2. SOLID GEOMETRY.

3. Any eight units selected from group E.

E. Candidates for admission to the Philosophical Course or to the Scientific Courses must present in the case of the former, six units, in case of the latter, eight units, selected from the following:

English Literature, History of Modern Europe, History of England, Civics; Zoölogy, Physiography, Botany, Geology, Astronomy; Solid Geometry, Chemistry with Laboratory Practice; French (three units); German (three units).

The time requirement for a unit is five hours a week for a term of twelve weeks.

The requirements for admission to the various Courses amount to the work of a High School with a four years' course.

ADMISSION ON CERTIFICATE.

Graduates of Bucknell Institute, in any of the Courses, will be admitted to the Sophomore year of the corresponding Course in the College.

Graduates from Bucknell Academy, in any of the Courses, will be admitted to the corresponding Courses in the College upon the Diploma of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the General Science Course without examination.

Certificates of the **College Entrance Examination Board** are accepted for admission, and also certificates of the State Board for Examination of Candidates for registration as Students of Law, and Regents' certificates of New York State.

Students who have graduated in a four years' Course of study in **Preparatory and High Schools** of superior standing may be admitted upon the certificate of the Principal of the school from which they come without examination upon the subjects specified in the certificate.

All students received upon certificate are regarded as in conditional standing, and will not be matriculated unless their work during the first ten weeks of the term shows that their preparation has been sufficiently thorough.

SPECIAL STUDENTS.

Students who do not desire to take a full regular course can enter and select special shorter courses with the sanction of the Faculty; but in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the Course from which they intend to select.

ADVANCED STANDING.

I. General Requirements. A proportionate increase of age is required for admission to advanced classes over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

II. Particular Requirements. Candidates for admission to advanced classes are examined both as for admission to Freshman standing and also on the studies that have been pursued by the class which they desire to enter.

MATRICULATION.

Matriculation gives membership in the College and is a condition precedent to all degrees and honors as well as to honorable dismissal. No student is admitted to matriculation until he has shown by his class work during at least ten weeks and by his deportment that he is worthy of membership in the College.

HONORABLE DISMISSION.

No person will be dismissed from the College as in good standing who leaves it while under censure; and papers of dismissal given to those leaving while under a condition shall either be given as of a date anterior to the term during which that condition was incurred, or shall distinctly mention the condition; nor will honorable dismissal be granted to any student who has not discharged all his pecuniary obligations to the Institution. No papers of dismissal or of grades will be granted to a student who has not completed one year of work. All certificates of dismissal are signed by the President of the University and sealed with the corporate seal, and no others are valid.

No certificate or statement as to work done in his department is granted by any professor or instructor to an undergraduate.

COURSES OF STUDY.

The Bucknell College offers eight Courses of study leading to degrees in Arts, Philosophy, and Science. Each of the Courses extends through four years. For the Bachelor's degree, thirty-six courses, each of one term five hours a week, must be presented, as well as the prescribed work in oral and written Expression, the former of which extends through two years of the course and the latter through four years, and also twelve lecture courses.

I. The Classical Course, leading to the degree of Bachelor of Arts, aims to furnish a liberal education in classical and modern Literature, in the Sciences and Arts. Candidates for the degree of Bachelor of Arts must present at least three courses in German and French.

II. The Philosophical Course, with Latin or Greek in each of its two divisions, aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. Those who have completed the studies of the Course, including not less than four courses of German and French, are admitted to the degree of Bachelor of Philosophy. But a candidate who offers nine College courses in either of the Ancient Classical languages may receive the degree of Bachelor of Arts.

III. The Course in Jurisprudence, leading to the degree of Bachelor of Arts, covers four years of work in Law, Political Science, Economics, Philosophy, Literature, and Mathematics. The Course in Jurisprudence is designed for persons preparing for the legal profession, for a business career, and for participation in public affairs. No one is graduated from this Course if his average standing for the Course is below nine.

IV. The General Science Course, leading to the degree of Bachelor of Science, is substantially the same as the Philosophical Course, with the substitution of additional Modern Language and Scientific Studies for Latin and Greek. Candidates for the degree of Bachelor of Science must present at least one year of German or French for admission and at least four courses

of college work in German and French as requisites for graduation.

V. The Course in Biology, leading to the first degree in Biological Science, covers four years of work in Biology, Chemistry, Physics, Mathematics, and Literature. No one is admitted to the first degree in Biological Science if his average standing for the Course is below nine.

VI. The Course in Chemistry, leading to the first degree in Chemical Science, covers four years of work in Chemistry, Physics, Mathematics, Biology, and Literature. No one is admitted to the first degree in Chemical Science if his average standing for the Course is below nine.

The requirements in Modern Language are the same for the Course in Jurisprudence as for the Philosophical Course; and for the Course in Biology and for that in Chemistry they are the same as for the Course in General Science.

VII. The Course in Civil Engineering, leading to the first degree in Civil Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, Technology, and Language. No one is admitted to the first degree in Civil Engineering if his average standing for the Course is below nine.

VIII. The Course in Electrical Engineering, leading to the first degree in Electrical Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, Physics, Electro-technics, and Language. No one will be admitted to the first degree in Electrical Engineering if his average standing for the Course is below nine.

IX. Advanced Courses in Arts, in Science, and in Engineering have been established, leading to the degrees respectively of Master of Arts, Master of Science, Master of Pedagogy, Civil Engineer, and Electrical Engineer.

The Master's degree is conferred only on condition that the candidate has completed a Course of Liberal study, approved by the Faculty, sufficient in amount to constitute a fifth year of college work. Particulars may be learned by addressing the President.

CURRICULA.

Roman numerals indicate the number of class-exercises required each week; when there is no designation, five is understood.

I. THE CLASSICAL COURSE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

- | | |
|-------------------------------------------|--------------|
| I. TERM—Solid Geometry, | Rhetoric, I, |
| Cicero de Senectute and Livy, Oratory, I. | |
| { Odyssey, | |
| { Greek Prose Composition, | |
| II. TERM—Algebra, | Rhetoric, I, |
| Livy, | Oratory, I. |
| { Lysias' Orations, | |
| { Greek Testament, | |
| III. TERM—Trigonometry, | Rhetoric, I, |
| Velleius and Pliny, | Oratory, I. |
| { Plato's Apology, | |
| { Greek Testament, | |

SOPHOMORE YEAR.

- | | |
|-------------------|------------------------|
| I. TERM—Rhetoric, | Linear Perspective, I, |
| Horace, | Oratory, I. |

ELECTIVE STUDIES:

- | | |
|-----------------------------|-----------------------------|
| <i>German,</i> | <i>Chemistry,</i> |
| <i>Greek History,</i> | <i>Surveying,</i> |
| <i>American History, 1,</i> | <i>Analytical Geometry.</i> |

- | | |
|------------------------------|---------------|
| II. TERM—English Literature, | Astronomy, I, |
| Demosthenes, | Oratory, I. |

ELECTIVE STUDIES:

- | | |
|-----------------------------|-------------------------------|
| <i>Roman History,</i> | <i>Logic,</i> |
| <i>American History, 2,</i> | <i>Chemistry,</i> |
| <i>Latin, 6,</i> | <i>Advanced Algebra,</i> |
| <i>German,</i> | <i>Differential Calculus,</i> |
| | <i>Physiology.</i> |

III. TERM—German,

History of Art, I.

ELECTIVE STUDIES:

<i>English Oratory,</i>	<i>Anthropology,</i>
<i>Public Address,</i>	<i>Botany,</i>
<i>Argumentation,</i>	<i>Chemistry,</i>
<i>Juvenal,</i>	<i>Integral Calculus,</i>
<i>American Civics,</i>	<i>Elements of Law,</i>
<i>Economic History.</i>	

JUNIOR YEAR.

I. TERM—Psychology,
French,Greek Literature, I,
Thesis.

ELECTIVE STUDIES:

<i>Æschylus and Sophocles,</i>	<i>Sociology,</i>
<i>Latin, 8,</i>	<i>Physiological Psychology,</i>
<i>English, 6 or 7,</i>	<i>Experimental Physiology,</i>
<i>Practical Oratory,</i>	<i>Biology,</i>
<i>German,</i>	<i>Embryology,</i>
<i>Spanish,</i>	<i>Chemistry,</i>
<i>History, 1,</i>	<i>Higher Analytics,</i>
<i>Economics,</i>	<i>Mechanics,</i>
<i>Real Property,</i>	<i>Geology.</i>

II. TERM—Ethics, IV,
History of Philosophy, I,Geology, I,
Thesis.

ELECTIVE STUDIES:

<i>Euripides,</i>	<i>Advanced Logic,</i>
<i>Latin Poets, 9,</i>	<i>Advanced Composition,</i>
<i>English, 8,</i>	<i>Interpretative Reading,</i>
<i>German,</i>	<i>Comparative Psychology,</i>
<i>French,</i>	<i>Zoölogy of Invertebrates,</i>
<i>Spanish,</i>	<i>Animal Histology,</i>
<i>English Bible,</i>	<i>Human Anatomy, a,</i>
<i>History, 10,</i>	<i>Chemistry,</i>
<i>Municipal Sociology,</i>	<i>Mathematics, 11,</i>
<i>Money and Banking,</i>	<i>Physics,</i>
<i>Municipal Government,</i>	<i>Personal Property.</i>

III. TERM—Theism,

History of Education, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek</i> , 8,	<i>Railroad Transportation</i> ,
<i>Latin</i> , 10,	<i>Zoölogy of Vertebrates</i> ,
<i>Journalism</i> ,	<i>Cryptogamic Botany</i> ,
<i>German</i> ,	<i>Bacteriology</i> ,
<i>French</i> ,	<i>Entomology</i> ,
<i>Spanish</i> ,	<i>Neurology</i> ,
<i>English Bible</i> ,	<i>Chemistry</i> ,
<i>Equity</i> ,	<i>Astronomy</i> ,
	<i>Physics</i> .

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek</i> , 15,	<i>School Administration</i> ,
<i>Greek Testament</i> ,	<i>International Law</i> ,
<i>Latin</i> , 11,	<i>Comparative Anatomy</i> ,
<i>Anglo-Saxon</i> ,	<i>Chemistry</i> ,
<i>English</i> , 4 or 9,	<i>Geology</i> ,
<i>German</i> ,	<i>Geodetic Astronomy</i> ,
<i>Medieval History</i> ,	<i>Contracts</i> ,
	<i>Advanced Ethics</i> .

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Demosthenes de Corona</i> ,	<i>Philosophy of Mind</i> ,
<i>Greek Testament</i> ,	<i>History</i> , 11,
<i>Latin</i> , 12,	<i>History of Europe</i> ,
<i>Roman Life</i> ,	<i>Comparative Politics</i> ,
<i>Chaucer</i> ,	<i>Public Finance</i> ,
<i>French</i> ,	<i>Chemistry</i> ,
<i>Psychology of Education</i> ,	<i>Economic Geology</i> ,
<i>Evidence</i> ,	<i>Human Anatomy</i> , b.

III. TERM—Literature, I,

Thesis.

ELECTIVE STUDIES:

<i>Plato, Phaedo,</i>	<i>History of Europe, 9,</i>
<i>Greek Testament,</i>	<i>Private Corporations,</i>
<i>Latin, 13,</i>	<i>Constitutional Law,</i>
<i>German,</i>	<i>Roman Law,</i>
<i>Shakspeare,</i>	<i>Partnership,</i>
<i>History of Philosophy,</i>	<i>Chemistry,</i>
<i>Philosophy of Education,</i>	<i>Advanced Physics,</i>
<i>Forestry.</i>	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

II. THE PHILOSOPHICAL COURSE.

Leading to the Degree of Bachelor of Philosophy.

A. LATIN DIVISION.

FRESHMAN YEAR.

- | | |
|-------------------------------|--------------|
| I. TERM—Solid Geometry, | Rhetoric, I, |
| Cicero de Senectute and Livy, | Oratory, I. |
| German, | |
| II. TERM—Algebra, | Rhetoric, I, |
| Livy, | Oratory, I. |
| German, | |
| III. TERM—Trigonometry, | Rhetoric, I, |
| Velleius and Pliny, | Oratory, I. |
| French, | |

SOPHOMORE YEAR.

- | | |
|-------------------|------------------------|
| I. TERM—Rhetoric, | Linear Perspective, I, |
| Horace, | Oratory, I. |

ELECTIVE STUDIES:

<i>Latin, 9,</i>	<i>Advanced Composition,</i>
<i>English, 8,</i>	<i>Interpretative Reading,</i>
<i>German,</i>	<i>Comparative Psychology,</i>
<i>French,</i>	<i>Zoölogy of Invertebrates,</i>
<i>Spanish,</i>	<i>Animal Histology,</i>
<i>English Bible,</i>	<i>Human Anatomy, a,</i>
<i>History, 10,</i>	<i>Chemistry,</i>
<i>Municipal Sociology,</i>	<i>Mathematics, 11,</i>
<i>Money and Banking,</i>	<i>Physics,</i>
<i>Municipal Government,</i>	<i>Personal Property.</i>
<i>Advanced Logic,</i>	

III. TERM—Theism,

History of Education, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek, 8,</i>	<i>Railroad Transportation,</i>
<i>Latin, 10,</i>	<i>Cryptogamic Botany,</i>
<i>Journalism,</i>	<i>Zoölogy of Vertebrates,</i>
<i>German,</i>	<i>Entomology,</i>
<i>French,</i>	<i>Bacteriology,</i>
<i>Spanish,</i>	<i>Neurology,</i>
<i>English Bible,</i>	<i>Chemistry,</i>
<i>Equity,</i>	<i>Astronomy,</i>
	<i>Physics.</i>

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Latin, 11,</i>	<i>Contracts,</i>
<i>German,</i>	<i>School Administration,</i>
<i>Anglo-Saxon,</i>	<i>International Law,</i>
<i>English, 4 or 9,</i>	<i>Comparative Anatomy,</i>
<i>Medieval History,</i>	<i>Chemistry,</i>
<i>Advanced Ethics,</i>	<i>Geology,</i>
	<i>Geodetic Astronomy.</i>

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Latin, 12,</i>	<i>Psychology of Education,</i>
<i>Chaucer,</i>	<i>Roman Life,</i>
<i>German,</i>	<i>Comparative Politics,</i>
<i>French,</i>	<i>Public Finance,</i>
<i>Philosophy of Mind,</i>	<i>Chemistry,</i>
<i>History of Europe,</i>	<i>Economic Geology,</i>
<i>History, 11,</i>	<i>Human Anatomy, 6,</i>
<i>Evidence.</i>	

III. TERM—Literature, I,

Thesis.

ELECTIVE STUDIES:

<i>Latin, 13,</i>	<i>Philosophy of Education,</i>
<i>German,</i>	<i>Constitutional Law,</i>
<i>Shakspeare,</i>	<i>Roman Law,</i>
<i>History of Philosophy,</i>	<i>Private Corporations,</i>
<i>History of Europe,</i>	<i>Chemistry,</i>
<i>Comparative Politics,</i>	<i>Forestry,</i>
<i>Partnership.</i>	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

THE PHILOSOPHICAL COURSE.

B. GREEK DIVISION.

FRESHMAN YEAR.

I. TERM—Solid Geometry,	Rhetoric, I,
Odyssey,	Oratory, I.
German,	
II. TERM—Algebra,	Rhetoric, I,
{ Lysias' Orations,	Oratory, I.
{ Greek Testament,	
German,	
III. TERM—Trigonometry,	Rhetoric, I,
{ Plato's Apology,	Oratory, I.
{ Greek Testament,	
French,	

SOPHOMORE YEAR.

- I. TERM—Rhetoric, Greek History, Linear Perspective; I, Oratory, I

ELECTIVE STUDIES:

- American History, 1, Analytical Geometry,
German, Chemistry,
Surveying.*

- | | |
|------------------------------|---------------|
| II. TERM—English Literature, | Astronomy, I, |
| Demosthenes, | Oratory, I. |

ELECTIVE STUDIES:

- | | |
|-----------------------------|-------------------------------|
| <i>German,</i> | <i>Logic,</i> |
| <i>French,</i> | <i>Physiology,</i> |
| <i>Roman History,</i> | <i>Chemistry,</i> |
| <i>American History, 2,</i> | <i>Differential Calculus,</i> |
| <i>Advanced Algebra.</i> | |

- II. TERM—American Civics, History of Art, I.

ELECTIVE STUDIES:

- English Oratory,*
Public Address,
Argumentation,
German,
French,
Economic History.
- Elements of Law,*
Botany,
Anthropology,
Chemistry,
Integral Calculus,

JUNIOR YEAR.

- I. TERM—Psychology, Greek Literature, I,
Thesis.

ELECTIVE STUDIES:

- | | |
|--------------------------------|----------------------------------|
| <i>Æschylus and Sophocles,</i> | <i>Sociology,</i> |
| <i>German,</i> | <i>Economics,</i> |
| <i>French,</i> | <i>Physiological Psychology,</i> |
| <i>Spanish,</i> | <i>Experimental Physiology,</i> |
| <i>English, 6 or 7,</i> | <i>Biology,</i> |
| <i>Practical Oratory,</i> | <i>Embryology,</i> |
| <i>History, 1,</i> | <i>Chemistry,</i> |
| <i>Real Property,</i> | <i>Higher Analytics,</i> |
| <i>Mechanics.</i> | |

II. TERM—Ethics, IV,
History of Philosophy, I,

Geology, I,
Thesis.

ELECTIVE STUDIES:

<i>Euripides,</i>	<i>Advanced Logic,</i>
<i>German,</i>	<i>Advanced Composition,</i>
<i>French,</i>	<i>Interpretative Reading,</i>
<i>Spanish,</i>	<i>Comparative Psychology,</i>
<i>English, 8,</i>	<i>Zoölogy of Invertebrates,</i>
<i>English Bible,</i>	<i>Animal Histology,</i>
<i>History, 10,</i>	<i>Human Anatomy, a,</i>
<i>Money and Banking,</i>	<i>Chemistry,</i>
<i>Municipal Government,</i>	<i>Mathematics, 11,</i>
<i>Municipal Sociology,</i>	<i>Physics,</i>
<i>Personal Property.</i>	

III. TERM—Theism,

History of Education, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek, 8,</i>	<i>Zoölogy of Vertebrates,</i>
<i>Journalism,</i>	<i>Entomology,</i>
<i>German,</i>	<i>Cryptogamic Botany,</i>
<i>French,</i>	<i>Bacteriology,</i>
<i>Spanish,</i>	<i>Neurology,</i>
<i>English Bible,</i>	<i>Chemistry,</i>
<i>Equity,</i>	<i>Astronomy,</i>
<i>Railroad Transportation,</i>	<i>Physics.</i>

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek, 15,</i>	<i>Advanced Physics,</i>
<i>Greek Testament,</i>	<i>School Administration,</i>
<i>English, 4 or 9,</i>	<i>International Law,</i>
<i>Anglo-Saxon,</i>	<i>Comparative Anatomy,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>Medieval History,</i>	<i>Geology,</i>
<i>Advanced Ethics,</i>	<i>Geodetic Astronomy,</i>
<i>Contracts.</i>	

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Demosthenes de Corona,</i>	<i>Evidence,</i>
<i>Greek Testament,</i>	<i>Psychology of Education,</i>
<i>Chaucer,</i>	<i>Roman Life,</i>
<i>French,</i>	<i>Comparative Politics,</i>
<i>Philosophy of Mind,</i>	<i>Public Finance,</i>
<i>History of Europe, 8,</i>	<i>Chemistry,</i>
<i>History, 11,</i>	<i>Economic Geology,</i>
<i>Human Anatomy, b.</i>	

III. TERM—Literature, I,

Thesis.

ELECTIVE STUDIES:

<i>Plato, Phaedo,</i>	<i>Partnership,</i>
<i>Greek Testament,</i>	<i>History of Europe, 9,</i>
<i>German,</i>	<i>Constitutional Law,</i>
<i>Shakspeare,</i>	<i>Roman Law,</i>
<i>History of Philosophy,</i>	<i>Private Corporations,</i>
<i>Philosophy of Education,</i>	<i>Chemistry,</i>
<i>Forestry.</i>	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

III. THE COURSE IN JURISPRUDENCE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

- I. TERM—Solid Geometry, Rhetoric, I,
 Cicero de Senectute and Livy. Oratory, I.
 { Odyssey,
 { Greek Prose Composition,
 or German,
 or French,
- II. TERM—Algebra, Rhetoric, I,
 Livy, Oratory, I.
 { Lysias' Orations,
 { Greek Testament,
 or German, or French,

- III. TERM—Trigonometry, Rhetoric, I,
 Velleius and Pliny, Oratory, I.
 { Plato's Apology,
 { Greek Testament, or German,
 or French,

SOPHOMORE YEAR.

- I. TERM—Rhetoric, Political Science, I,
 Horace, Oratory, I.

ELECTIVE STUDIES:

Greek History, French,
American History, 1, Surveying,
German, Chemistry.

- II. TERM—English Literature, Political Science, I,
 Logic, Oratory, I.

ELECTIVE STUDIES:

Demosthenes, American History, 2,
Quintilian, German,
Roman History, French.

- III. TERM—Elements of Law, Political Science, I.
 American Constitutional Law,

ELECTIVE STUDIES:

Juvenal, English Oratory,
German, Argumentation,
French, Public Address,
Economic History.

JUNIOR YEAR.

- I. TERM—Psychology, Blackstone, I,
 Economics, Thesis.

ELECTIVE STUDIES:

Real Property, Blackstone B. II., Latin, 8,
Constitutional Limitations, Greek Tragedy,
English History, 10 or 11, English Literature,
Sociology, Practical Oratory,
Modern Language.

- II. TERM—Ethics, Blackstone, I,
 Money and Banking, Thesis.

ELECTIVE STUDIES:

<i>Personal Property,</i>	<i>English Bible,</i>
<i>Municipal Government,</i>	<i>Greek,</i>
<i>History,</i>	<i>Latin, 9,</i>
<i>Logic, Course 2,</i>	<i>English Literature,</i>
<i>Advanced Composition,</i>	<i>Modern Language,</i>
<i>Interpretative Reading.</i>	

- III. TERM—Theism, Blackstone, I,
 Private Corporations, Thesis.

ELECTIVE STUDIES:

<i>Equity,</i>	<i>Greek,</i>
<i>English Bible,</i>	<i>Latin, 10,</i>
<i>History,</i>	<i>Modern Language.</i>

SENIOR YEAR.

- I. TERM—International Law, Social Ethics, I,
 Thesis.

ELECTIVE STUDIES:

<i>Contracts,</i>	<i>English Literature,</i>
<i>Medieval History,</i>	<i>Latin, 11,</i>
<i>Anglo-Saxon,</i>	<i>Modern Language,</i>
<i>Advanced Ethics.</i>	

- II. TERM—Comparative Politics, Political Ethics, I,
 Thesis.

ELECTIVE STUDIES:

<i>Evidence,</i>	<i>Demosthenes de Corona,</i>
<i>Public Finance,</i>	<i>Latin, 12,</i>
<i>History of Modern Europe,</i>	<i>Chaucer,</i>
<i>Philosophy of Mind,</i>	<i>Modern Language.</i>

- II. TERM—Roman Law, Literature, I,
 Thesis.

ELECTIVE STUDIES:

<i>Partnership,</i>	<i>Shakspeare,</i>
<i>Railroad Transportation,</i>	<i>Plato's Phaedo,</i>
<i>Metaphysics,</i>	<i>Latin, 13,</i>
<i>History, 9,</i>	<i>Modern Language,</i>
<i>History of Philosophy.</i>	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

IV. THE GENERAL SCIENCE COURSE.

Leading to the Degree of Bachelor of Science.

FRESHMAN YEAR.

I. TERM—Algebra,	Rhetoric, I,
Latin,	Oratory, I.
German, 2,	
II. TERM—Trigonometry,	Rhetoric, I,
Latin,	Oratory, I.
German, 2,	
III. TERM—Analytical Geometry,	Rhetoric, I,
Latin,	Oratory, I.
French,	

SOPHOMORE YEAR.

I. TERM—Rhetoric,	Linear Perspective, I,
	Oratory, I.

ELECTIVE STUDIES:

<i>Chemistry,</i>	<i>Greek History,</i>
<i>Horace,</i>	<i>American History, 1,</i>
<i>German,</i>	<i>Surveying,</i>
<i>French.</i>	

II. TERM—English Literature,	Astronomy, I,
Oratory, I.	

ELECTIVE STUDIES:

<i>German,</i>	<i>Logic,</i>
<i>French,</i>	<i>Physiology,</i>
<i>Roman History,</i>	<i>Chemistry,</i>
<i>American History, 2,</i>	<i>Differential Calculus,</i>
<i>Advanced Algebra.</i>	

III. TERM—American Civics,

History of Art, I.

ELECTIVE STUDIES:

<i>English Oratory,</i>	<i>French,</i>
<i>Public Address,</i>	<i>Elements of Law,</i>
<i>Argumentation,</i>	<i>Anthropology,</i>
<i>Juvenal,</i>	<i>Botany,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>Integral Calculus,</i>	<i>Economic History.</i>

JUNIOR YEAR.

I. TERM—Psychology,

Greek Literature, I,

Thesis.

ELECTIVE STUDIES:

<i>English, 6 or 7,</i>	<i>Economics,</i>
<i>Practical Oratory,</i>	<i>Physiological Psychology,</i>
<i>German,</i>	<i>Experimental Physiology,</i>
<i>French,</i>	<i>Zoölogy of Vertebrates,</i>
<i>Spanish,</i>	<i>Embryology,</i>
<i>History, 1,</i>	<i>Chemistry,</i>
<i>Sociology,</i>	<i>Higher Analytics,</i>
<i>Real Property,</i>	<i>Mechanics.</i>

II. TERM—Ethics, IV,

Geology, I,

History of Philosophy, I,

Thesis.

ELECTIVE STUDIES:

<i>English, 8,</i>	<i>Personal Property,</i>
<i>German,</i>	<i>Advanced Composition,</i>
<i>French,</i>	<i>Interpretative Reading,</i>
<i>Spanish,</i>	<i>Comparative Psychology,</i>
<i>English Bible,</i>	<i>Zoölogy of Vertebrates,</i>
<i>History, 10,</i>	<i>Animal Histology,</i>
<i>Money and Banking,</i>	<i>Human Anatomy, a,</i>
<i>Municipal Government,</i>	<i>Chemistry,</i>
<i>Municipal Sociology,</i>	<i>Mathematics, 11,</i>
<i>Physics.</i>	

III. TERM—Theism.

History of Education, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek, 8,</i>	<i>Cryptogamic Botany,</i>
<i>Journalism,</i>	<i>Biology,</i>
<i>German,</i>	<i>Bacteriology,</i>
<i>French,</i>	<i>Entomology,</i>
<i>Spanish,</i>	<i>Neurology,</i>
<i>English Bible,</i>	<i>Astronomy,</i>
<i>Railroad Transportation,</i>	<i>Physics,</i>
<i>Equity,</i>	<i>Chemistry.</i>

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Anglo-Saxon,</i>	<i>Advanced Ethics,</i>
<i>English, 4 or 9,</i>	<i>International Law,</i>
<i>German,</i>	<i>Comparative Anatomy,</i>
<i>French,</i>	<i>Chemistry,</i>
<i>Medieval History,</i>	<i>Geology,</i>
<i>Contracts,</i>	<i>Geodetic Astronomy,</i>
<i>School Administration.</i>	

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>German,</i>	<i>Psychology of Education</i>
<i>French,</i>	<i>Roman Life,</i>
<i>Chaucer,</i>	<i>Comparative Politics,</i>
<i>Philosophy of Mind,</i>	<i>Public Finance,</i>
<i>History of Europe,</i>	<i>Chemistry,</i>
<i>History, 11,</i>	<i>Economic Geology,</i>
<i>Evidence,</i>	<i>Human Anatomy, b.</i>

III. TERM—Literature, I,

Thesis.

ELECTIVE STUDIES:

<i>German,</i>	<i>Partnership,</i>
<i>French,</i>	<i>Constitutional Law,</i>

Shakspeare,
History of Philosophy,
History of Europe,
Philosophy of Education,

Roman Law,
Private Corporations,
Chemistry,
Forestry.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

V. THE COURSE IN BIOLOGY.

Leading to the First Degree in Biological Science.

FRESHMAN YEAR.

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|------------------------------------------------------------------------------|-----------------------------|
| I. TERM—Algebra,
General Chemistry,
Latin or German, 2, | Rhetoric, I,
Oratory, I. |
| II. TERM—Trigonometry,
General Chemistry,
Latin or German, 2, | Rhetoric, I,
Oratory, I. |
| III. TERM—Analytical Geometry,
Qualitative Chemistry,
Latin or French, | Rhetoric, I,
Oratory, I. |

SOPHOMORE YEAR.

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|----------------------------------------------------------|----------------------------|
| I. TERM—Rhetoric,
Biology,
Quantitative Chemistry, | Drawing, I,
Oratory, I. |
| II. TERM—Invertebrate Zoölogy,
Physiology, | Drawing, I,
Oratory, I. |

ELECTIVE STUDIES:

<i>History,</i>	<i>English Literature,</i>
<i>Modern Language,</i>	<i>Chemistry,</i>
<i>Differential Calculus.</i>	

- III. TERM—Vertebrate Zoölogy, Drawing, I.
Botany,

ELECTIVE STUDIES:

<i>Chemistry,</i>	<i>Civics,</i>
<i>Anthropology,</i>	<i>English Literature,</i>
<i>Integral Calculus,</i>	<i>Modern Language.</i>

JUNIOR YEAR.

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| I. TERM—Psychology,
Mechanics,
<i>Physiological Psychology</i> or
<i>Experimental Physiology</i> , | Scientific German, I,
Thesis. |
| II. TERM—Comparative Psychology,
Physics, | Scientific German, I,
Thesis. |

ELECTIVE STUDIES:

<i>History,</i>	<i>Literature,</i>
<i>Ethics,</i>	<i>Modern Language,</i>
<i>Metallurgy,</i>	<i>Human Anatomy, &c.</i>

- III. TERM—Entomology,
Physics,
- Scientific German, I,
Thesis.

ELECTIVE STUDIES:

<i>Toxicology,</i>	<i>English Literature,</i>
<i>Astronomy,</i>	<i>Modern Language,</i>
<i>Theism.</i>	<i>Neurology.</i>

SENIOR YEAR.

- I. TERM—Comparative Anatomy, Social Ethics, I,
 Embryology, Thesis.

ELECTIVE STUDIES:

Geology, *Modern Language,*
Economics, *Chemistry,*
History.

- II. TERM—Histology, Political Ethics, I,
Thesis.

ELECTIVE STUDIES:

<i>Human Anatomy, b,</i>	<i>History,</i>
<i>Economic Geology,</i>	<i>English Bible,</i>
<i>Money and Banking,</i>	<i>Modern Language,</i>
<i>Chemistry.</i>	

III. TERM—Neurology,	Forestry, I,
Bacteriology,	Thesis.

ELECTIVE STUDIES:

<i>Chemistry,</i>	<i>Literature,</i>
<i>Materia Medica,</i>	<i>English Bible,</i>
<i>Railroad Transportation,</i>	<i>Modern Language,</i>
<i>Forestry,</i>	<i>History.</i>

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VI. THE COURSE IN CHEMISTRY.

Leading to the First Degree in Chemical Science.

FRESHMAN YEAR.

I. TERM—Chemistry,	Rhetoric, I,
Algebra,	Oratory, I.
Latin or German, 2,	
II. TERM—Chemistry,	Rhetoric, I,
Trigonometry,	Oratory, I.
Latin or German, 2,	
III. TERM—Chemistry,	Rhetoric, I,
Analytical Geometry,	Oratory, I.
Latin or French,	

SOPHOMORE YEAR.

I. TERM—Rhetoric,	Drawing, I,
Quantitative Chemistry,	Oratory, I.
Biology or	
Analytical Geometry,	

- II. TERM—Quantitative Chemistry, Drawing, I,
 Invertebrate Zoölogy, Oratory, I.

ELECTIVE STUDIES:

Physiology, *English Literature,*
Differential Calculus, *Modern Language.*

- III. TERM—Quantitative Chemistry, Drawing, I.
 Vertebrate Zoölogy,

ELECTIVE STUDIES:

Botany, *Civics,*
Integral Calculus, *Literature,*
 Modern Language.

JUNIOR YEAR.

- I. TERM—Organic Chemistry, Scientific German, I,
 Mechanics, Thesis.

ELECTIVE STUDIES:

Toxicology, *History,*
Psychology, *Modern Language,*
 Sociology.

- II. TERM—Organic Chemistry, Scientific German, I,
 Physics, Thesis.

ELECTIVE STUDIES:

Metallurgy, *Ethics,*
Comparative Psychology, *History,*
Sanitary Science, *Modern Language.*

- III. TERM—Organic Chemistry, Scientific German, I,
 Physics, Thesis.

ELECTIVE STUDIES:

Agricultural Chemistry, *Entomology,*
Astronomy, *Theism,*
History, *Modern Language.*

SENIOR YEAR.

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| I. TERM—Physical Chemistry,
Geology, | Social Ethics, I,
Thesis. |
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ELECTIVE STUDIES:

<i>Embryology,</i>	<i>History,</i>
<i>Economics,</i>	<i>Modern Language,</i>
<i>Advanced Physics.</i>	

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| II. TERM—Physical Chemistry,
Thesis. | Political Ethics, I, |
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ELECTIVE STUDIES:

<i>Economic Geology,</i>	<i>Money and Banking,</i>
<i>Advanced Physics,</i>	<i>History,</i>
<i>Histology,</i>	<i>Modern Language.</i>

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| III. TERM—Physical Chemistry, | Forestry, I. |
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ELECTIVE STUDIES:

<i>Advanced Physics,</i>	<i>Constitutional Law,</i>
<i>Bacteriology,</i>	<i>Railroad Transportation,</i>
<i>Forestry,</i>	<i>Modern Language.</i>

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VII. THE COURSE IN CIVIL ENGINEERING.

Leading to the First Degree in Civil Engineering.

FRESHMAN YEAR.

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|-----------------------------------------------------|-----------------------------|
| I. TERM—Advanced Algebra,
Drawing,
German, 2, | Rhetoric, I,
Oratory, I. |
| II. TERM—Trigonometry,
Drawing,
German, 2, | Rhetoric, I,
Oratory, I. |

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| III. TERM—Analytical Geometry,
Drawing,
French, | Rhetoric, I,
Oratory. |
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SOPHOMORE YEAR.

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| I. TERM—Rhetoric,
Surveying,
Chemistry, | Geodesy, I,
Oratory, I. |
| II. TERM—Differential Calculus,
Descriptive Geometry,
Chemistry, | Geodesy, I,
Oratory, I. |
| III. TERM—Integral Calculus,
Railroad Surveying,
Chemistry, | Geodesy, I. |

JUNIOR YEAR.

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|----------------------------------------------------------------------------------------|-------------------------------------|
| I. TERM—Mechanics,
Strength of Materials,
Roads and Pavements, | Architectural Design, I,
Thesis. |
| II. TERM—Physics,
Masonry,
Metallurgy, | Architectural Design, I,
Thesis. |
| III. TERM—Physics,
Boilers and Engines,
{ Water Supply,
Sanitary Engineering, | Geology, I,
Thesis. |

SENIOR YEAR.

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|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| I. TERM—Bridges and Buildings,
<i>Geodetic Astronomy</i> or
<i>Geology</i> or
<i>Advanced Mechanics</i> or
<i>Electrical Measurements,</i> | Social Ethics, I,
Thesis. |
| II. TERM—Hydraulic Motors,
Bridges and Buildings,
<i>Economic Geology</i> or
<i>Advanced Physics</i> or
<i>Direct Current Machinery,</i> | Political Ethics, I,
Thesis. |

- III. TERM— { Mine Surveying, Contracts and Specifications, I,
 { City Surveying, Thesis.
 Bridges and Buildings,
 Railroad Transportation or
 Advanced Physics or
 Alternating Current Machinery
 or *Forestry*,
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VIII. THE COURSE IN ELECTRICAL ENGINEERING.

Leading to the First Degree in Electrical Engineering.

FRESHMAN YEAR.

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|-------------------------------------------------------|-----------------------------|
| I. TERM—Advanced Algebra,
Drawing,
German, 2, | Rhetoric, I,
Oratory, I. |
| II. TERM—Trigonometry,
Drawing,
German, 2, | Rhetoric, I,
Oratory, I. |
| III. TERM—Analytical Geometry,
Drawing,
French, | Rhetoric, I,
Oratory, I. |

SOPHOMORE YEAR.

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|-------------------------------------------------------------|------------------------------|
| I. TERM—Rhetoric,
Mechanics,
Chemistry, | Shopwork, II,
Oratory, I. |
| II. TERM—Differential Calculus,
Mechanics,
Chemistry, | Shopwork, II,
Oratory, I. |
| III. TERM—Integral Calculus,
Physics,
Chemistry, | Shopwork, II. |

JUNIOR YEAR.

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|------------|-----------------------------------------------------------------------------|--------------------------------------------|
| I. TERM— | Electrical Measurements,
Advanced Mechanics,
Strength of Materials, | Machine Design
and Tools, I,
Thesis. |
| II. TERM— | Direct Current Machinery,
Advanced Physics,
Metallurgy, | Machine Design
and Tools, I,
Thesis. |
| III. TERM— | Alternating Current Machinery,
Advanced Physics,
Boilers and Engines, | Machine Design
and Tools, I,
Thesis. |

SENIOR YEAR.

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|------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| I. TERM— | Design of Electrical Machinery,
Electrical Generating Stations
and Transmission,
Graphical Analysis of Structures, | Social Ethics, I,
Thesis. |
| II. TERM— | Design of Electrical Machinery,
Telegraphs, Telephones, Signal-
ing Apparatus,
Hydraulic Motors, | Political Ethics, I,
Thesis. |
| III. TERM— | Electric Lighting,
Electric Railways,
Water Supply and Sanitary
Engineering, | Contracts and Speci-
fications, I,
Thesis. |

DEPARTMENTS OF INSTRUCTION.

The method of instruction in the College is varied according to the nature of the subject. Each professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each branch as the subject-matter requires, yet all are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations. The range and character of the instruction can be gathered from the following account of the different departments.

I. DEPARTMENT OF PHILOSOPHY.

JOHN HOWARD HARRIS, LL. D.,
PROFESSOR OF PSYCHOLOGY AND ETHICS.

CALVIN AURAND HARE, A. M.,
PROFESSOR OF CHRISTIAN EVIDENCES AND LOGIC.

THOMAS ALPHEUS EDWARDS, A. M.,
PROFESSOR OF PEDAGOGY.

The studies in this department embrace Psychology, Philosophy, Ethics, Theism, and Pedagogy.

1. Psychology, Descriptive and Explanatory. Required Course. Juniors. First term, five hours.
2. Physiological and Experimental Psychology. Elective to Seniors and Juniors. First term, five hours.—PROFESSOR DAVIS.
3. Lotze, Grundzuege der Psychologie. Seniors and Juniors. Two hours.
4. Philosophy of Mind. Elective to Seniors and Juniors. Third term, five hours.

5. **Logic, Deductive and Inductive.** Second term, five hours.
—PROFESSOR HARE.

6. **Scientific Method, with Exercises in Analysis.** Seniors and Juniors.. Second term, five hours.—PROFESSOR HARE.

7. **Argumentation.** Baker's *Principles of Argumentation*. Briefs, forensics, and oral discussion. Third term. (Rhetoric, 3.)
PROFESSOR PHILLIPS.

8. **History of Philosophy.** Lectures. Required of Juniors. Second term, two hours.

9. **Greek Philosophy** (Greek, 10). Elective to Seniors and Juniors.—PROFESSOR HAMBLIN.

10. **Roman Philosophy** (Latin, 16). Elective to Seniors and Juniors.—PROFESSOR ROCKWOOD.

11. **Metaphysics.** Study of Lotze and Kant. Third term, five hours.

12. **Ethics.** Required of Juniors. Second term, four hours.

13. **Social Ethics.** Lectures. Required of Seniors. First term, one hour.

14. **Political Ethics.** Lectures. Required of Seniors. Second term, one hour.

15. **Ethics of Plato and Aristotle.** Study of the Republic and Nicomachean Ethics, with collateral readings and thesis. First term, five hours.

16. **Philosophy of Law.** Kant. With collateral reading and thesis. Second term, five hours.

17. **Practical Ethics.** Lectures.—DR. WHITMAN.

18. **Philosophy of Religion.** Required of Juniors. Third term, five hours.

19. **Evidences of Christianity.** Elective to Seniors. Second term, five hours.—PROFESSOR HARE.

20. **Bible Study.** Lectures on Biblical Themes, by the President. Sundays, 9.30 to 10.15.

EDUCATION.

21. **History of Education.** A general sketch of educational Theory and Practice in Ancient and Modern times. Lectures. Required of Juniors. Third term, one hour.—PROFESSOR EDWARDS.

22. **Psychology of Education.** Based on Harris' Psychologic Foundations of Education. Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR EDWARDS.

23. **Comparative and Child Psychology.** Text-book, reports. Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR DAVIS.

24. **Philosophy of Education.** Based on Horne's Philosophy of Education. Elective to Juniors and Seniors. Third term, five hours.—PROFESSOR EDWARDS.

25. **School Administration.** High School organization, function and management; discussion of methods; survey of College Entrance Requirements. First term, five hours.—PROFESSOR EDWARDS.

26. **Teachers' Course in American History.** Methods of teaching History with special reference to the work of secondary schools. Second term, two hours.—PROFESSOR COLESTOCK.

27. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text. The preparatory work is reviewed, and suggestions made regarding methods of teachings. Some informal lectures are also given regarding the first year's work in Greek. First term, five hours. Seniors and Juniors.—PROFESSOR HAMBLIN.

28. **Teachers' Course in Latin.** Special topics in grammar, with practical exercises in Cæsar, Cicero, Vergil. Third term, five hours. Seniors and Juniors.—PROFESSOR ROCKWOOD.

29. **Teachers' Course in English.** Designed to familiarize the student with the authors required for entrance to college.—PROFESSOR PERRINE.

30. **Teachers' Course in Mathematics.** Mathematics as developed in history and as used in education. (a) Arithmetic: Its culture value, utility, present status in the schools: reforms in arithmetical teaching. (b) Algebra: Its growth during the last three centuries, typical parts (ethical value). (c) Geometry: Its basis, historical position, methods, recent geometry.—PROFESSOR BARTOL.

CERTIFICATES.

The courses in education and methods of teaching, including Child Psychology, the History, the Psychology, and the Philosophy of Education, are helpful to those intending to teach. Students who take not less than eight of these courses will be entitled to a

certificate for the work done in addition to the diploma of the Course in which they graduate.

REGISTER OF TEACHERS.

In order to aid Boards of Control in securing suitable teachers, there is kept a registry of graduates of Bucknell University who may wish to engage in teaching. Alumni and friends of the College will render a service if they will inform the President of vacancies.

II. DEPARTMENT OF LAW.

HAROLD MURRAY MCCLURE, A. M.,
PRESIDENT JUDGE OF THE SEVENTEENTH JUDICIAL DISTRICT,
LECTURER ON CONTRACTS AND PARTNERSHIPS.

FREDERIC EVANS BOWER, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON EVIDENCE AND EQUITY.

ALBERT WILLIAM JOHNSON, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON REAL AND PERSONAL PROPERTY.

The Bucknell College of Liberal Arts offers in its courses for the degrees in Arts and Science a number of subjects specially bearing upon the study of law. Students prepared for college and having taken one year's work in liberal studies, will be admitted to the studies in Law. The instruction is by text-book, lecture, and study of cases. The texts of "Leading Cases" have been placed in the library for the use of students. A certificate for the work done is given by the department, in addition to the Diploma of the College. But this certificate is not given for any legal subject in which the student's standing is below nine; nor to any student whose general average is below nine. Opportunity is given for the *Review of the Latin, History and Literature* required in the Preliminary Examination for registration as students of Law in Pennsylvania.

1. **Elementary Law.** Robinson's Elementary Law. Third term. Sophomore year.—PROFESSOR COLESTOCK.

2. **Blackstone's Commentaries.** B. I, III, IV. One hour, Junior year, three terms.—PROFESSOR COLESTOCK.

3. **Real Property.** Blackstone, B. II, and Select Cases, Lectures. First term, Junior year.—MR. JOHNSON.

4. **Personal Property.** Text-book, Select Cases, Lectures. Second term, Junior year.—MR. JOHNSON.

5. **Contracts.** Text-book, Select Cases, Lectures. First term, Senior year.—JUDGE MCCLURE.

6. **Equity.** Text-book, Select Cases, Lectures. Third term, Junior year.—MR. BOWER.

7. **Evidence.** Text-book, Select Cases, Lectures. Third term, Senior year.—MR. BOWER.

8. **Partnership.** Text-book, Leading Cases, Lectures. Second term, Senior year.—JUDGE MCCLURE.

9. **Principles of International Law.** Fall term, Seniors and Juniors.—PROFESSOR HEIM.

10. **Roman Law.** Third term, Seniors and Juniors.—PROFESSOR ROCKWOOD.

11. **American Civics.** A study of the frame of Federal and State Government.—PROFESSOR COLESTOCK.

12. **The Constitution of Pennsylvania.** Review of the principal decisions of the Supreme Court interpreting the provisions of the Constitution.—PROFESSOR HEIM.

13. **American Constitutional Law.** Third term, Seniors and Juniors.—PROFESSOR HAMBLIN.

14. **Constitutional Limitations.** Cooley's Constitutional Limitations and cases.—PROFESSOR HEIM.

15. **Comparative Constitutional Law.** Second term, Seniors and Juniors. A comparison of the Constitutions of England, France, Germany, Switzerland, and the United States.—PROFESSOR HEIM.

16. **Moot courts** are held in which an attorney-at-law and a student sit as judges, and students, deputed to represent the respective sides, present their arguments. The presiding student writes the opinion of the court.

III. DEPARTMENT OF ECONOMICAL AND POLITICAL SCIENCE.

EPHRAIM M. HEIM, PH. D., PROFESSOR.

1. **Economics, I.** General course, devoted chiefly to problems of Production and Distribution.

2. **Economics, II.** Money and Banking. Prerequisite, Course I.

3. Economics, III. Public Finance. Financial Administration, Taxation and Public Debts. Alternating with Course II. Prerequisite, Course I.

4. Corporate Finance and Commercial Law. Organization and Management of Corporations. Corporation Finance. Form and Nature of Securities and Commercial Paper. Funding Operations, Accounting and Auditing. Nature and Operations of Special Groups of Corporations, such as Public Service Companies, Financial Institutions, Insurance, etc.

5. Transportation and Commerce. Development of Foreign and Inland Commerce and Transportation. Organization and Methods of Railway Transportation. Theory of Rates, and Methods of State Control. Ocean Transportation, Shipping, and Navigation Acts. Commercial Geography.

6. Industrial History of United States. Development of Business Organization. Evolution of Types of Industry. Changes in Land Tenure; in the Distribution and Marketing of Products; in Forms of Exchange; in Insurance; in Organization of Labor Force; in Legislative Policy. Race Elements in American Industry.

7. Economics. Two hours a week. One of the following subjects will be studied: (1) English Economic History; (2) Socialism; (3) Labor Legislation.

8. American Civics and Parliamentary Law. A study of the American frame of Federal and State Government; and of Parliamentary rules and usages.—PROFESSOR COLESTOCK.

9. American Constitutional Law. Cooley's Elements of Constitutional Law. A study of the law of the Federal Constitution.—PROFESSOR HAMBLIN.

10. Constitutional Limitations. The Constitutional Law of the American Commonwealth. The sphere of Civil Rights in relation of the exercise of governmental power through the criminal law, the police power, the taxing power, and the power of eminent domain.

11. Comparative Politics. A comparative study of the Constitutions of England, France, Germany, Switzerland, and the United States.

12. Municipal Government. Organization of City Government. Problems of Administration, Municipal Functions. Relation to the State. Second term; five hours. Seniors and Juniors.

13. **International Law.** First term, five hours. Seniors and Juniors.

14. **Political Parties and Party Government.** Origin and Growth of Party Government in the United States. Basis of Party Division. Rise and Decline of American Parties. Organization and Machinery of Party Government. European Parties. Lectures, one hour a week, throughout the year. Required in Jurisprudence Course.

15. **Political Science.** Minor Course, two hours. One of the following will be given: (1) Elements of Political Science; (2) Administrative Law.

16. **American Diplomacy.** Minor Course, two hours.

IV. DEPARTMENT OF SOCIOLOGY.

WILLIAM EMMET MARTIN, A. M., PROFESSOR.

1. **Anthropology, Descriptive and Physical.** Elective to Sophomores. Third term, five hours.

2. **Sociology, Principles and Theory.** Elective to Seniors and Juniors. First term, five hours.

3. **Charities and Reform.** Seniors and Juniors. Second term, one hour. Prerequisite Course 2.

4. **Municipal Sociology.** Seniors and Juniors. Second term, five hours.

5. **History of Art.** Lectures. Sophomores. Third term, one hour.

V. DEPARTMENT OF HISTORY.

HENRY THOMAS COLESTOCK, PH. D., PROFESSOR.

History is approached in the gradually unfolding life-story of the race.

1. **Oriental History.** A survey of the civilizations along the Nile and the Euphrates, including Egypt, Babylonia, Assyria, Phœnicia, and Persia, constituting an introduction to biblical and classical times. First term, five hours.

2. **Hebrew History and Literature.** Second term, five hours.
—PROFESSOR PHILLIPS.

3. **New Testament History and Literature.** Third term, five hours.—PROFESSOR PHILLIPS.

4. **Greek Political and Constitutional History.** First term, five hours.—PROFESSOR HAMBLIN.

5. **Roman History.** Second term, five hours.—PROFESSOR ROCKWOOD.

6. **Roman Private Life.** Second term, five hours.—PROFESSOR BALLENTINE.

7. **Medieval Europe.** General survey of Western Europe, from the fourth to the thirteenth century, with especial attention to the institutional life of the people and the progress of civilization. First term, five hours.

8. **Modern Europe to 1789.** From the thirteenth century to the opening of the French Revolution. Considers especially the Renaissance, the Protestant Reformation, and conditions combining to produce the French Revolution. Second term, five hours.

9. **Modern Europe since 1789.** The French Revolution, the Napoleonic era, Unification in Germany and Italy. Progress in civilization, social and industrial conditions. Third term, five hours.

10. **History of England.** Political and industrial development of the English people from the earliest times. Second term, five hours.

11. **Constitutional History of England.** With especial reference to the growth and development of the present form of constitutional government in England. Second term, five hours. To alternate with Course 10.

12. **American Colonial History.** European background of American colonization. Political, industrial, and constitutional conditions in the English colonies. Causes and results of the Revolutionary War.

13. **American Constitutional History.** Origin of the Federal Constitution. Growth of nationality. Conflict between nationality and State sovereignty. Issues involving the interpretation of the Constitution.

14. **Industrial History of United States.** Development of Business Organization. Evolution of Types of Industry. Changes in Land Tenure; in a Distribution and Marketing of Products; in

Forms of Exchange; in Insurance; in Organization of Labor Force; in Legislative Policy. Race Elements in American Industry.—PROFESSOR HEIM.

15. **Teachers' Course in American History.** General survey of American history, designed to meet the needs of those who expect to teach history in secondary schools. Minor course.

16. **The Far East.** Survey of present conditions, social and constitutional, in Japan and China. Minor course.

17. **Historical Biography.** Detailed study of one or more important historical characters.

18. **Present Conditions in Russia.** Minor course.

VI. THE GREEK LANGUAGE AND LITERATURE.

THOMAS FRANKLIN HAMBLIN, A. M., PROFESSOR.

There are four terms of required work in Greek in the Classical Course, and five in the Greek Philosophical Course; while Greek may be taken as an elective during the entire Junior and Senior years. Besides the Elective courses a number of Minor Courses are offered. In the Elective courses a year of poetry alternates with a year of prose. A course of lectures on the Greek poets is given to the Seniors, with collateral reading. A course of New Testament Greek, designed especially for candidates for the ministry and extending through the Senior year is given by Professor Phillips.

Courses: 1-5, required; 6-15, elective.

1. **Homer.** Odyssey, Books 5-8. Review of verb forms and syntax of verbs. Epic forms and styles. Word lists. Metre. First term, Freshman year.

2. **Lysias.** Six orations. Inflection and syntax of nouns. Prose composition. Attic oratory. Translation at sight and hearing. Second term, Freshman year.

3. **Plato.** Apology and selections. Special topics in Greek Syntax. Philosophy and influence of Socrates. The Sophists. Extracts from the Memorabilia at sight. Third term, Freshman year.

4. **Greek Political and Constitutional History.** Bury's History of Greece is used as a text-book. The class is also required to do collateral reading on important epochs. First term, Sophomore year.

5. **Demosthenes.** Olynthiacs and Philippics. History and Politics of the Macedonian period. Style of Demosthenes. Second term, Sophomore year.

6. **Æschylus and Sophocles.** Prometheus Bound and Œdipus Tyrannus. The drama, theatre, and metres. First term, Seniors and Juniors, in alternate years.

7. **Euripides and Aristophanes.** Medea and The Clouds. Greek Comedy. Religious influence of the poets. Influence of the Classical on the Modern Drama. Second term, Seniors and Juniors, in alternate years.

8. **Greek Literature in English.** A course especially designed for students in the Philosophical and Scientific Courses, that they may become acquainted with some of the Greek masterpieces. The best translations will be studied and explained, and informal lectures will be given on various phases of Greek Literature. Third term, Senior and Junior years.

9. **Demosthenes.** *De Corona.* The oratory of Demosthenes, from a literary and political point of view. Æschines against Ctesiphon at sight. Second term, Seniors and Juniors, alternating with 6.

10. **Plato.** The Phædo. Greek Philosophy. The influence of Plato. Third term, Seniors and Juniors; alternating with 7.

11. **New Testament Greek.** The Gospel according to Luke. Hellenistic Greek. Second and third terms, Freshman year; one hour a week.

12-14. **New Testament Greek.** Translation of the synoptic Gospels; interpretation; Burton's *Moods and Tenses*; characteristics of Hellenistic Greek. Designed for students desiring a linguistic and historical foundation for the interpretation of the New Testament. Three terms. Elective to Seniors.—PROFESSOR PHILLIPS.

15. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text-books. Thus the Preparatory work may be reviewed, and suggestions received regarding the methods of teaching. Some informal lectures are also given regarding the first year's work in Greek. First term, Seniors and Juniors.

16. **Xenophon.** The Symposium and Œconomicus. Sophomores and Freshmen. Winter terms in alternate years, one hour.

17. **Homer and Lucian.** Selections from each in alternate years. Sophomores and Freshmen. Third term, one hour.

18. **Xenophon and Æschines.** The Memorabilia and the oration against Ctesiphon, in alternate years. Seniors and Juniors, first term, one hour.

19. **Sophocles and the Lyric Poets.** Antigone and selections from the Lyric Poets in alternate years. Seniors and Juniors, second term, one hour.

VII. THE LATIN LANGUAGE AND LITERATURE.

FRANK ERNEST ROCKWOOD, LL. D., PROFESSOR.

FLOYD GEORGE BALLENTINE, PH. D., ASSISTANT PROFESSOR.

There are four terms of required work in Latin and eleven of elective in the Classical and Latin Philosophical Courses. Special courses, subject to change from time to time, are also offered.

A. Candidates for the Degree of Bachelor of Science take Latin daily during the Freshman year. This course is intended for students who have passed only in the General Requirements in Latin, for admission. The work consists in the study of *Cicero* (*selected speeches*) and *Vergil*, or *Livy*, and *Prose Composition*.

B. The following courses are designed for students in the Classical and Philosophical Courses, but are also open as electives to students in the Science Course who may be qualified to take them:

Courses: 1-4, required; 5-15, elective.

1. **Cicero.** *De Senectute.* Livy, Book I. Review of special topics in Latin grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year, two divisions.

2. **Livy.** Books XXI and XXII. Latin Prose Composition, based upon the text. Roman history: Special chapters in Liddell. Second term, Freshman year, two divisions.

3. **Velleius.** Roman History. Pliny. Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Third term, Freshman year, two divisions.

4. **Horace.** Selections from the Odes, Satires, and Epistles. Prosody; Historical Outlines of the Latin Language and Liter-

ature; Wilkins' Primer; Lectures. First term, Sophomore year, two divisions.

5. **Roman History.** The work is based on Allen's Rise and Fall of Rome. Mommsen, Bury, and Gibbon are used for supplementary reading. Second term, Sophomore year.

6. **Quintilian.** Books X and XII. Roman Literature. Second term; open to those who have taken course 4; alternating with 12.

7. **Juvenal.** Selected Satires. Third term; open to those who have taken course 4.

8. **Plautus.** Selected Plays. First term; open to Seniors and Juniors; alternating with 11.

9. **Terence.** Andria, Hauton Timorumenos, and Phormio; lectures on such subjects as the life and influence of Terence, the Roman theatre, the production of comedy, etc. Second term; open to Seniors and Juniors; alternating with 14.

10. **Latin Inscriptions.** Allen's Remnants of Early Latin; Egbert's Manual. Third term; open to Seniors and Juniors; alternating with 13.

11. **Tacitus.** Annals. Translation at sight. Roman History. First term; open to Seniors and Juniors; alternating with 8.

12. **Latin Poets.** Crowell's Selections. Roman Literature. Second term; open to those who have taken course 4; alternating with 6.

13. **Teachers' Course in Latin.** Special topics in grammar with practical exercises in Cæsar, Cicero, Vergil. Third term; open to Seniors and Juniors; alternating with 10.

14. **Roman Private Life.** Lectures; required reading; one report, involving elementary investigation. Second term; open to Seniors and Juniors; alternating with 9.

15. **Roman Law.** Morey's Roman Law; Sandar's Institutes of Justinian; lectures and reports. Third term; open to Seniors; required in the Course of Jurisprudence.

16. **Roman Philosophy.** Cicero and Seneca, one hour.

17. **Christian Writers.** Tertullian and Latin Hymns, one hour.

18. **Classical Philology.** Introductory Course, one hour.

VIII. THE ENGLISH LANGUAGE AND LITERATURE.

ENOCH PERRINE, LITT. D., PROFESSOR.

1. **English Literature**, introductory course. Designed to give a general knowledge of the history of English Literature from the Elizabethan to the Victorian periods, inclusive. Required, second term, Sophomore.

2. **English Literature** from 1832. For those who have taken course 1, and alternating with course 13.

3. **English Literature**, 1790-1832: Wordsworth, Coleridge, Shelley, Byron. For those who have taken course 1, and alternating with course 14.

4. **English Literature**, 1614-1790. For those who have taken course 1, and alternating with course 15.

5. **English Literature**, 1600-1660. For those who have taken course 1, and alternating with course 8.

6. **Shakspeare**. Reading of several plays, chiefly as studies in interpretation. For Seniors and Juniors.

7. **Shakspeare**. His mind and art. Critical study of *A Midsummer Night's Dream*, *Hamlet*, and *Tempest*. For Seniors and Juniors.

8. **The English Drama**. Its development from the earliest times to Shakspeare. For those who have taken course 1, and alternating with course 5.

9. **Teachers' Course in English**. Designed to familiarize the student with those authors, both in the way of theory and practice, that are required for entrance to college. For those who have taken course 1, and alternating with course 10.

10. **Principles of Literary Criticism**. For Seniors and Juniors, and alternating with course 9.

11. **American Literature**, with special reference to the national period. For those who have taken course 1, and alternating with course 12.

12. **Journalism**, a study and practice of the various forms illustrated in the metropolitan "dailies," together with proof-reading, study of the functions of editors, and readings in the

history of great American journalists and journals. For those who have taken course 1, and alternating with course 11.

13. **Anglo-Saxon.** Old English Language and Literature, with special elective in Beowulf. For those who have taken course 1 and the required work in German.

14. **Chaucer.** Middle English Language and Literature, with readings in Langland and Gower, and in Lounsbury's *The English Language*. For those who have taken course 1 and the required work in French.

15. **Modern English.** Special comparative readings in Modern English Prose. For those who have taken courses 13 and 14, or show special fitness for the work.

16. **Foreign Literature in English.** Lectures on some of the world's masterpieces are given to the Seniors on Monday mornings during the third term. Alternating with this course, lectures are given on Modern English Fiction.

17. **Periods of English Literature.** Special work is given in different periods of English Literature to those who have passed with credit in courses 1 and 2.

18. *Le Public et les Hommes de Lettres en Angleterre, 1660-1744; Beljame; or Ecrivains Modernes de L'Angleterre, Montegut.*

19. **Shakspeare.** Fünf Vorlesungen von Bernhard ten Brink.

IX. RHETORIC AND ORATORY.

LLEWELLYN PHILLIPS, A. M., PROFESSOR.

BROMLEY SMITH, A. M., INSTRUCTOR IN RHETORIC AND ORATORY.

A.—COURSES IN RHETORIC AND COMPOSITION.

1. **Rhetoric and English Composition.** Introductory course. Themes, weekly recitations, and consultations. Three terms; one hour. Required of Freshmen.

Students who show good preparation are admitted to a special section, in which more advanced work is given.

2. **English Composition.** Daily themes, recitations, and consultations. First term, five hours. Required of Sophomores.

3. **Argumentation.** Baker's *Principles of Argumentation*. Briefs, forensics and oral discussion. Third term. Open to students who have passed in 1 and 2.

4. **English Composition.** *Advanced Course*. Wendell's *English Composition*. Daily and fortnightly themes, recitations, and consultations. Second term; five hours. Open to Seniors and Juniors.

5. **Theses.** Every member of the Junior and the Senior Class writes a thesis. The Junior theses contain not less than two thousand words, the Senior theses not less than three thousand words. The subjects are chosen in conjunction with the heads of the departments to which the subjects belong. Upon these theses are based the Junior Exhibition orations and the Commencement orations. The subjects of the theses are presented to the Professor of Rhetoric before October 22, and an outline of each thesis is presented to the Professor of Rhetoric at the close of the first term. The completed theses are handed in before March 1. They are examined first by the heads of the departments to which the subjects belong and afterwards by the Professor of Rhetoric. The subjects of the Senior theses are published in the annual Catalogue.

6. **English Prose.** Studies in Structure. Two hours.

7. **English Prose.** Studies in the Principles of style. Two hours.

8. **Teachers' Course.** The theory and practice of Rhetoric and Composition. Carpenter, Baker, and Scott. The teaching of English. Five hours. Open to students who have attained an average grade of nine in courses 1, 2, and 4.

9. **The Theory of Rhetoric.** A study of the laws of thought.

10. **Movements of Thought in the Nineteenth Century.** Methods of investigation; theses. Open to Seniors.

B.—COURSES IN ORATORY.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. All instruction is based upon the principle that impression precedes and determines expression. Each student receives individual attention during the first half of the course in elocution, during the latter half in oratory. Special attention is given to debate. Each student is urged to take an active part in the work of the Literary Societies.

The ultimate object of the *physical culture* is to secure a good presence and the ability on the part of the voice and body to interpret correctly the conceptions of the mind.

FRESHMEN.

1. **Physical Culture.** Exercises for securing correct position, and harmony of movements and attitudes; exercises for breath control and vocal culture and for grace in gesture.

2. **Public Speaking.** Study of the fundamentals of public speaking; delivery of short extracts from masterpieces of oratory, aiming to secure directness, earnestness, and dignity of address. Required, first and second terms, one hour.

3. **Public Speaking.** Delivery of complete orations illustrating and applying the principles studied in the first and second terms. A prize is offered to the young man and one to the young woman of the Freshman Class who excels in the delivery of these orations. Required, third term.

SOPHOMORES.

4. **Public Speaking.** Close analysis and study of the details of public speaking; study of the various styles of delivery and of the different forms of discourse. Delivery of selected extracts from masterpiece illustrating each. Extemporaneous speaking. Reviews and continuation of the physical culture of course 1. Required, first term, one hour.

5. **Public Speaking.** Study of narration. Description and argumentation. Delivery of selections illustrating each. Preparation and delivery of original narrations and descriptions. Extemporaneous speaking. Required, second term, one hour.

6. **Public Speaking.** Delivery of complete argumentative selections. Preparation for and participation in debate. A prize is awarded to the young man of the Sophomore Class who shall excel in the delivery of an assigned selection in argumentation. A prize is awarded to the young woman of the Sophomore Class who shall excel in the delivery of an assigned selection in narration. Third term.

7. **Public Address.** The various forms of addressing the public are studied. Beginning with open letters and editorials, the

class advances to presentations, acceptances, nominations, dedications, inaugural addresses, institute talks, banquet toasts, eulogies, commemorative orations, etc. Each student prepares and delivers before his class specimens from the above forms. Third term, five hours; Sophomores.

8. Practical Oratory. Briefs and notes are made the basis for extemporaneous addresses; Congressional speeches and modern occasional orations are outlined and studied. The application of rhetorical and of oratorical principles in their connection with logic is considered. Special work in line with the student's intended profession is given. A limited field, historical, economic, or otherwise, is assigned to each student for development. When his orations have been examined and corrected, the student delivers them before the class. First term, five hours; Seniors and Juniors.

9. Interpretative Reading. The use of the voice in bringing out the meaning of the best literature is obtained by practice in class. Attention is given to the pedagogical and psychological aspects of reading. Second term, five hours; Seniors and Juniors.

JUNIORS.

10. Prize Contest. A prize contest in Oratory is held in the third term by Juniors, appointed on the ground of superiority in composition and elocution as shown during the preceding terms of the college course.

11. Prize and Honor Debate. During the year there are three debates by Juniors, the last of which is a prize and honor debate.

12. Oral Debates. Briefs, Debates, and Criticism. The Professor of Economic and Political Science coöperates in this course. First term; one hour.

The contestants for the Junior Prize are selected from the students who take this course.

SENIORS.

13. Honors in Debating. During the year an elective course in debating is offered to Seniors. The last debate is public.

14. Prize in Oratory. A prize is offered for the best oration of those delivered by the Senior orators at Commencement, regard being had equally to subject-matter, style, and delivery.

X. DEPARTMENT OF MODERN LANGUAGES.

GUIDO CARL LEO RIEMER, A. M., PH. D., PROFESSOR.

ELYSEE AVIRAGNET, A. M., PROFESSOR OF THE ROMANCE LANGUAGES.

PAUL EMIL WEITHAASE, A. M., ASSISTANT PROFESSOR OF GERMAN.

CHARLES FREEMAN NEVENS, A. B., INSTRUCTOR IN FRENCH.

A.—GERMAN.

1a. **Elementary Course.** Grammar; German Prose; practice in writing German. Two terms.

1b. **Elementary Course.** Grammar; German Prose; practice in writing German. Required course, Sophomores of the Classical Course. Third term, five hours.

2. **German Prose.** Grammar; practice in writing German. Required course, Freshmen of the Scientific Course; elective course for those who have taken 1a or 1b.

3. **German Prose and Poetry.** Grammar; practice in writing German. Required course, Freshmen of the Scientific Course; elective course for those who have taken course 2.

4. **Historical and Critical German Prose.** Practice in writing German. Elective course for those who have taken course 3.

5. **Modern German Novelists.** Practice in writing German. Elective course for those who have taken course 4.

6. **Schiller.** Practice in writing German. Elective course, for those who have taken course 4.

7. **Goethe.** Practice in writing German; lectures. Elective course, for those who have taken course 4.

8. **Goethe.** Practice in writing German; lectures. Elective course, for those who have taken courses 5-7.

9. **Goethe.** Shorter Poems, *Dichtung und Wahrheit*, *Faust I*; lectures. Elective course for those who have taken course 8.

10. **Lessing.** Practice in writing German; lectures. Elective course for those who have taken course 9.

11. **Kleist, Grillparzer and Heine.** Practice in writing German; lectures. Course 11 alternates with course 8.

12. **Ludwig, Hebbel and Uhland.** Practice in writing German; lectures. Course 12 alternates with course 9.

13. **Middle High German.** Practice in writing German; lectures. Course 13 alternates with course 10.

14. **Lotze.** Grundzüge der Psychologie. (Philosophy 3.)

15. **Shakspeare: Fünf Vorlesungen.** (English 16.)

16. **German Political Science.** (Economics 16.)

17. **German Biological Science.** (Biology 21.)

18. **German Chemical Science.** (Chemistry 16.)

19. **Scientific German.** Designed especially for students in the Engineering Courses. Two hours, throughout the year.

B.—FRENCH.

1a. **Elementary Course.** Grammar; French prose; practice in writing French. Required course, Freshmen of the Scientific and Philosophical Courses.

1b. **Elementary Course.** Grammar; French prose; practice in writing French. Required course, Juniors of the Classical Course.

2. **French Prose.** Grammar; practice in writing French. Elective course for those who have taken course 1a or 1b.

3. **French Prose and Poetry.** Grammar; practice in writing French. Elective course for those who have taken course 2.

4. **Historical and Critical French Prose.** Practice in writing French. Elective course for those who have taken course 3.

5. **Authors of the XIX Century.** Practice in writing French. Elective course for those who have taken course 4.

6. **Corneille and Racine.** Practice in writing French; lectures. Elective course for those who have taken course 5.

7. **Molière.** Practice in writing French; lectures. Elective course for those who have taken course 6.

8. **Authors of the XVIII Century.** Practice in writing French; lectures. Elective course for those who have taken course 7.

9. **A View of French Literature.** Rapid reading; practice in writing French; lectures. Elective course for those who have taken course 8.

10. **Conversational French.** A course in French conversation is given by Dr. Aviragnet to students who have made sufficient progress in the language.

11. **French Prose Composition.** In addition to the practice in writing French required in all courses, Dr. Aviragnet gives annually a special course.

12. **Publique et les Hommes de Lettres, or Ecrivains Modernes de l'Angleterre.** (English 15.)

C.—SPANISH.

DR. AVIRAGNET.

1. **Elementary Spanish.** Grammar. Conversation. Translation of easy prose. Elective course, for Seniors and Juniors. First term, five hours.

2 and 3. **Spanish Prose.** Translation, Composition, Conversation. Elective course, for Seniors and Juniors. Second and third terms, five hours.

XI. DEPARTMENT OF MATHEMATICS.

WILLIAM CYRUS BARTOL, PH. D., PROFESSOR OF MATHEMATICS AND ASTRONOMY.

JOSEPH MEIXELL WOLFE, A. M., PROFESSOR OF MATHEMATICS AND SURVEYING.

CHARLES ARTHUR LINDEMANN, A. M., PROFESSOR OF APPLIED MATHEMATICS.

FRANK MORTON SIMPSON, SC. M., PROFESSOR OF PHYSICS AND DRAWING.

WALTER KREMER RHODES, A. M., E. E., PROFESSOR OF ELECTRO-TECHNICS.

FRANK EUGENE BURPEE, A. M., ASSISTANT PROFESSOR.

HARRY C. THOMPSON, ASSISTANT IN SURVEYING.

GEORGE E. WEBSTER, ASSISTANT IN SHOP WORK.

WALLACE J. SNYDER, ASSISTANT IN PHYSICS.

1. **Solid Geometry.** The course includes the geometry of solids with plane surfaces, the cone, the cylinder, the sphere, the spherical triangle, and conic sections. Freshman year, first term, five hours.

2. **Algebra.** The topics are ratio, proportion, variation, progressions, theory and development of functions, logarithms, differ-

entiation of algebraic functions, indeterminate equations, series, higher equations. Freshman year, first or second term, five hours.

3. **Determinants and Advanced Algebra.** Open to students who have completed course 2. Second term, five hours.

4. **Trigonometry.** The course includes plane trigonometry with application to problems in mensuration and surveying, and spherical trigonometry with applications to problems in astronomy. Freshman year, second or third term, five hours.

5. **Analytical Geometry.** The student is taken through the elementary properties of the right line, the circle, and the conic sections, and higher plane curves. The course is intended to give a clear conception of the methods of Cartesian analysis rather than an extensive knowledge of its results. Freshman year, third term, five hours, or Sophomore year, first term, five hours.

6. **Higher Analytical Geometry.** The course covers the geometry of three dimensions surfaces of revolution and higher plane curves; alternating with course 9. Junior year, second term, five hours.

7. **Differential Calculus.** The course includes higher derivatives and functions of several variables, infinite series, maxima and minima. Prerequisite, course 5. Sophomore year, second term, five hours.

8. **Integral Calculus.** The course includes the simpler methods of integration, rectification and quadrature of plane curves, surfaces and solids of revolution, and applications to problems in Physics and Mechanics. Sophomore year, third term, five hours.

9. **Differential Equations.** A course with mechanical applications. First term, five hours.

10. **Descriptive Astronomy.** The aim of the course is to present in concise form a synopsis of astronomical knowledge to date. Lectures. Sophomore year, Arts and Science courses, first term, one hour.

11. **General Astronomy.** The subject is taught by text-book, with illustrations in the observatory. The students have free use of the ten-inch equatorial telescope. Third term, five hours.

12. **Geodetic Astronomy.** The course includes the use of the astronomer's transit and micrometer; observations for Time; conversion of Time; Latitude, Longitude, Azimuth and their geodetic determination; figure and dimensions of the Earth; use of the

American Ephemeris; practice in the Observatory. Prerequisites, a course in Surveying and one in the Elements of Astronomy. Seniors, first term, five hours.

13. **Plane Surveying.** *Land Surveying*, laying-out, subdividing, and finding the area of given tracts of land. *Topographical Surveying*, by chain and compass, by plane table, and by transit instrument and stadia rods. Sophomore year, first term, five hours.

14. **Geodetic Surveying.** Minor course. Sophomore year. Civil Engineering, one hour throughout the year.

15. **Railroad Surveying.** Instruction is given in the theory of simple and compound curves, wyes, switches, and turn-outs. A corps is organized, which makes a preliminary survey of a cross-country railroad. The topography of this is taken and plotted; elevation of centre line taken; grade determined; degree of curves fixed, and paper location made. Centre line of permanent survey is now located; slope stake set; earthwork calculated; specifications drawn up, and estimates made of the line surveyed. Sophomore year, Civil Engineering, third term, five hours.

16. **Mine Surveying.** Problems in Mine Surveying, such as plumbing the shaft, locating the bore holes, lining up chambers, driving tunnels, are worked out in class and with the instruments. Plotting of notes forms a part of the work, and a trip of inspection is made to some nearby workings. Senior year, Civil Engineering, third term; five hours for six weeks.

17. **City Surveying.** Town sites are located and plotted; permanent reference points and bench marks established; sewers located and calculated; curb and property lines determined. Senior year, Civil Engineering, third term, five hours for six weeks.

18. **Descriptive Geometry.** A study of the representation of lines, plane surfaces, solids, and sections of solids; the projection of points, lines, and surfaces; practical problems. Engineering Courses, Sophomore year, second term, five hours.

19. **Linear Perspective.** A course of twelve lectures designed to familiarize the student with the principles of perspective, and to give him an insight into their manifold applications. Arts and Science Courses, Sophomore year, second term, one hour.

20-22. **Courses in Drawing.** Extending through the Freshman year of the course in Civil and Electrical Engineering, and required of all candidates for the first degree in Civil or Electrical Engineering. Ten hours a week.

(1) **Linear and Freehand.** An elementary course in drawing to give the student facility in the use of instruments; Geometrical problems; cross-sectioning; shading; isometric drawing; sketching from models.

(2) **Lettering.** The form and proportion of standard letters; structural details; methods of spacing; laying out titles.

(3) **Architectural Drawing.** Plans, elevations, and perspective drawings; copying of standards.

(4) **Pen and Color Topography.** Topographical signs; methods of hill shading; surface forms by contours and in color and pencil; enlarging and reducing maps, rendering in water colors, sepia, and charcoal.

(5) **Tracing and Blue Printing.** Photographic methods of the Architect and Engineer.

23. Architectural Design. The design of brick and stone structures, including the preparation of plans and specifications. Junior Engineering, one hour, first and second terms.

24-26. General Physics. (Three terms.) These courses in Physics are required in the Engineering Courses and are elective in the other courses. Instruction is given in the Laboratory supplemented by recitations and lectures.

(a) **LABORATORY.** The Laboratory instruction extends throughout the year and includes experiments illustrating the general laws in all branches of physics. The experiments are largely quantitative and use is made of instruments of precision. The work is entirely individual. The student is required to take notes in the Laboratory, elaborating them outside and presenting for criticism from time to time.

(b) **RECITATIONS.** Recitations supplement the laboratory work. The study of a text covering the theoretical and mathematical side of the subject is required.

(c) **LECTURES.** Frequent lectures are given in which use is made of lecture-room apparatus. All important phenomena are illustrated and experimental demonstrations of the principal laws are presented.

(1) **Mechanics and Heat.** First term.

(2) **Electricity and Magnetism.** Second term.

(3) **Acoustics and Optics.** Third term.

27-29. Advanced Physics. The course extends throughout the year and assumes that the student has completed courses 26-28 or the equivalent. Instruction is given chiefly in the Laboratory. Students are instructed in the use of instruments of precision employed in Mechanics, Heat, Light, Electricity, and Magnetism. The work in the Laboratory is supplemented by written reports in which both general and theoretical results obtained are discussed. These reports afford the basis for criticism of the work. The work must be pursued in such order as the appointments of the Laboratory may require.

The subject of Electricity and Magnetism will occupy about two-thirds of the year. For this work the laboratory is supplied with instruments of precision, such as the Thomson Reflecting Astatic Galvanometer, Helmholtz, D'Arsonval, and Ballistic Galvanometers, Standard Cells, Condensers, and Resistance, Weston instruments, etc. Two 50-kilowatt, Thomson-Ryan Dynamos, 125 volts, at the University lighting plant and a 2-kilowatt 110-volt machine are available for study. The equipment is increased as the need requires.

(1) **Mechanics.** Problems of engineering will receive special attention. The work will include experiments in statics, principle of movements, calibration of capillary tubes, testing levels, etc.

(2) **Heat.** Calorimetry and Thermo-dynamics of the steam engine will form the basis of the work.

(3) **Light.** The student will be instructed in the use of the spectrometer, spectroscope, interferometer, and the photometer.

(4) **Electricity and Magnetism.**

(a) Measurement of Current, Electro-motive Force, and Resistance. Determination of constants of galvanometers.

(b) Study of Primary and Secondary Batteries and Standard Cells.

(c) Tests, and calibration of commercial instruments.

(d) Experimental study of dynamo machines, including tests of efficiency.

(e) The Transmission of Intelligence.

30. Strength of Materials. Tensile, compressive, shearing, and cross-bending stresses are considered; methods of testing materials of construction are outlined, and problems in the design of

wooden and steel beams, girders, footings, beams, roof trusses, etc., are worked out. First term, Junior Engineering, five hours.

31. Masonry Construction. The materials of masonry construction and their preparation and use receive attention; this is followed by a study of foundations—ordinary, pile, and under water. Under masonry structures are treated; masonry dams, retaining walls, bridge abutments and piers, culverts, and masonry arches. Second term, Junior Civil Engineering, five hours.

32-34. Bridges and Buildings. The first term is devoted to Graphical Statics, problems being worked out daily in the drafting room. The work of the second term consists in the determination of stresses in framed structures by means of graphic and algebraic methods. The third term is spent in the calculation and designing of some framed structure and the preparation of the drawings for the same. Senior Civil Engineering, three terms, five hours.

35. Roads and Pavements. The economic location and design of streets and pavements are considered along with the questions of street drainage and foundations for roads and pavements. Comparisons are made between earth, gravel, broken stone, shell, plank, and burned clay roads, and also between asphalt, brick, stone block, and wooden block pavements. Equestrian roads, race tracks, bicycle paths, and sidewalks receive attention. First term, Junior Civil Engineering, five hours.

36. Hydraulics and Hydraulic Motors. This course includes the theory of Hydrostatics and Hydraulics, the flow of water over weirs, through orifices and tubes, and in pipes, canals, and rivers; the measurement of water-power; water wheels and turbines. Senior Engineering, second term, four hours.

37. Water Supply and Sanitary Engineering. Under the head of the collection and storage of water are taken up quantity of water required, rainfall, flow of streams, storage and evaporation of water, supplying capacity of water sheds, springs, and wells. The flow of water in streams, pipes, and channels is discussed, as also the practical construction of water works. A study is made of the various methods of sewage disposal. Third term, Junior Engineering, five hours.

38. Contracts. In this course will be given the principles of Common Law as applied to contracts. Third term, Senior Engineering, one hour.

39. **Electrical Measurements.** Lectures, recitations, and laboratory work. Juniors, Engineering, first term, five hours.

40. **Direct Current Machinery.** Lectures, recitations, and laboratory work. Juniors, Engineering, second term, five hours.

41. **Alternating Current Generators, Transformers, and Motors.** Lectures, recitations, and laboratory work. Juniors, Engineering, third term, five hours.

42. **Design of Electrical Machinery.** Lectures, recitations, drawings, and shop-work. Seniors, Electrical Engineering, first and second terms, five hours.

43. **Generating Stations and Sub-stations, Distribution of Electricity, Storage Batteries.** Lectures, recitations, and laboratory work. Seniors, Electrical Engineering, first term, five hours.

44. **Telegraph, Telephone, Railway Signal and Related Apparatus.** Lectures, recitations, and laboratory work. Seniors, Electrical Engineering, second term, five hours.

45. **Electric Lighting, Construction, Wiring, and Economics.** Seniors, Electrical Engineering, third term, five hours.

46. **Electric Railways, Construction, Operation, and Economics.** Seniors, Electrical Engineering, third term, five hours.

47. **Boilers, Steam, Gas, Air, and Oil Engines, Valve Gears, and Governors.** Juniors, Engineering, third term, five hours.

48. **Machine Design, Machine Tools.** Lectures, recitations, drawing. Juniors, Electrical Engineering, three terms, one hour.

49. **Shop-work.** Pattern making and machine work. Sophomores, Electrical Engineering, two hours throughout the year.

XII. DEPARTMENT OF CHEMISTRY.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.

GEORGE STEPHEN TILLEY, A. M., INSTRUCTOR.

JOHN CLYDE HOSTETTER, ASSISTANT.

The courses in Chemistry are designed to give a comprehensive view of the field covered by chemical investigation and to train the student in the various methods of chemical research. The courses as a whole are offered to those who expect to teach chemistry or enter the testing or industrial laboratory. As chemistry is at the foundation of the natural sciences, the first courses

are essential to the study of science and medicine, and are important for general culture.

1. Descriptive Chemistry. Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the non-metallic elements and their compounds. First term.

2. Descriptive Chemistry. Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the metallic elements and their compounds. Second term.

3. Qualitative Analysis. In the first part of the term chemical reactions are studied in the laboratory, class-room, and text-book, after which fifty compounds, mixtures, and industrial products are determined. Each student reports individually and is questioned on the methods of determination. Twelve hours laboratory work a week required. Third term, prerequisite courses 1 and 2.

4, 5, 6. Quantitative Analysis. This course, extending through the year, aims to acquaint the student with the methods of analysis used in different chemical determinations.

(1) In the first term, Gravimetric methods are studied and pure inorganic preparations made.

(2) In the second term, Volumetric methods are studied.

(3) In the third term, Fire and Gas analysis are taken up. Chemical theories are studied throughout the year. Laboratory work, nine hours a week. Prerequisites, courses 1, 2, and 3.

7. Organic Chemistry. Prerequisites, courses 1, 2, and 3. First term, five hours a week. Laboratory work, six to eight hours a week.

Hydrocarbons of the methane, olefine, and acetylene series and their most important derivatives are studied. In the laboratory, after preliminary exercises to train in technique, each student makes a number of pure organic substances belonging to the compounds studied.

8. Organic Chemistry (Continued). Second term, five hours a week. Prerequisite, Course 7. Aromatic hydrocarbons and derivatives are studied. In the laboratory a number of substances are made, and practice in ultimate organic analysis is given. From six to eight hours a week should be devoted to laboratory work, at times convenient to the student.

9. Organic Chemistry (Continued). Third term, five hours a week. Laboratory work, six to eight hours a week. Polycyclic

and heterocyclic compounds related both to aliphatic and aromatic compounds are studied. In the laboratory, syntheses and analyses of comparative difficulty are performed, and some study of organic reactions is made.

10. Physical Chemistry. First term, five hours a week. Laboratory work, six hours a week. Prerequisites, courses 1, 2, 3, 4, 5, 6, and Mechanics and Physics.

A study is made, during the two terms of the courses, of gases and the gas laws; of the properties of liquids and solids so far as of interest to the chemist; of solutions; of balanced actions; the phase rule, and particular cases of homogeneous and heterogeneous equilibrium.

11. Physical Chemistry. Second term, five hours a week. Course 10 is continued and the theoretical part of electro-chemistry begun. Laboratory work, six hours a week. The laboratory work during the two terms will include the more important physico-chemical measurements, such as determination of heats of reaction, of specific gravities, of molecular weights, of velocities of reaction, and others.

12. Electro-Chemistry. Third term, five hours a week. Laboratory work, six hours a week. Prerequisite physical chemistry.

The theoretical consideration of electro-chemistry is continued and technical subjects are studied, including electrolytic analysis of metals and some electrosynthetic methods.

The laboratory work will be designed to illustrate the subjects studied and give practice in electro-chemical technique.

13. Toxicology and Urinalysis. Poisons and their separation from organic matter are studied during the first part of the term. During the second part analysis of urine and of food adulteration is studied. Laboratory work, ten hours a week. Prerequisites, courses 1, 2, and 3.

14. Metallurgy. The manufacture and properties of iron and steel are studied and the influence of carbon, silicon, phosphorus, sulphur and other elements. Laboratory work consists in determining these elements and studying the structure under the microscope. Laboratory work, eight hours a week. Prerequisites, courses 1, 2, and 3.

15. Agricultural Chemistry. The chemistry of plants and fertilizers is studied. Fertilizer and food analysis is practiced in the laboratory six hours a week. This course covers the legal require-

ments for teachers of Pennsylvania high schools. Prerequisites, courses 1, 2, and 3.

16. German Chemical Literature. One hour a week, throughout the year. Prerequisite, at least two terms of German, and courses 1, 2, and 3 in chemistry.

Selections from standard German text-books and periodicals are read, and study is made of the derivation and formation of scientific words.

17. Physical Chemistry. Mathematical topics.

18. Organic Research.

19. History of Chemistry.

XIII. DEPARTMENT OF ORGANIC SCIENCE.

GEORGE G. GROFF, M. D., LL. D., PROFESSOR.

NELSON FITHIAN DAVIS, SC. D., PROFESSOR OF BIOLOGY.

PHAREZ GROSS HESS, A. B., INSTRUCTOR.

It is the constant aim in this department to teach how to interpret nature. The student is guided in his investigations by lectures and laboratory manuals.

Courses 1, 2, 6, 7, 8, 17, 19, 21, 22, and 24 are given by Professor Groff.

Courses 3, 4, 5, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20, and 23 are given by Professor Davis.

1. Animal Physiology. The aim of this course is to acquaint the student with the elementary facts concerning the functions of the human body. The work consists of lectures and readings from text-books on Physiology. The course was intended for those who wish a general knowledge of Physiology.

2. Neurology. Recitations, lectures, and laboratory work. The course is intended to give the general anatomy and histology of the Nervous System such as is required for those preparing for Medicine. Prerequisite, course 1 and General Chemistry.

3. Experimental Physiology. Lectures and experiments to illustrate the functions of the organs of the animal body. Alternating with course 4.

4. **Physiological and Experimental Psychology.** Elective to Seniors and Juniors. Alternating with course 3.

5. **Comparative and Child Psychology.** Text-book, reports. Elective to Seniors and Juniors.

6. **Sanitary Science.** Lectures, one hour a week.

7. **Human Osteology and Comparative Anatomy.** Recitations and dissections. In this course the student makes a systematic study of the human skeleton. The structure of the composite bones is compared to those of other vertebrates.

8a. **Human Anatomy.** Lectures, recitations, and dissections. The student has an opportunity to make a complete dissection of the human body. The work is largely independent. Models and text-books are used as guides.

8b. A second course, similar to 8a.

9. **Normal Histology.** Recitations and lectures, and laboratory work. In this course the student makes a thorough study of the microscopic structure of the cell and elementary tissues, followed by the study of the various organs of mammals. In the laboratory work the students prepare specimens by the various methods in fixing, hardening, staining and sectioning.

10. **Embryology.** Recitations, lectures, and laboratory work. This course is important because it gives a key to the interpretation of the structure and relationship of the parts of the animal body and because it investigates the development of the individual. It includes the early development of amphibians, birds and mammals.

11. **Biology.** Recitations and dissections. The aim of this course is to meet the needs of general education in this subject, and at the same time makes clear the fundamental principles, scope, method, history, and subdivisions of Biology and its relation to other sciences.

12. **Invertebrate Zoölogy.** Recitations and dissections. This course succeeds the course in Biology. It takes up the study and dissection of representatives of the invertebrate groups, including their life, histories, habits and distribution.

13. **Vertebrate Zoölogy.** Recitations and dissections. This is a continuation of course 10. It completes a general survey of the animal kingdom, special attention being given by each student

to dissections, anatomy, life histories, and habits of the various groups.

14. Entomology. Recitations and laboratory work. In this course each student makes a thorough study of the dissection, life history, and habits of insects representative of the different orders. Special attention is given to the economical importance and relation of insects to agriculture.

15. Organic Evolution. Minor course. Lectures and discussions. The evolution of the vertebrates is traced in detail and much time is given to the relation of evolution to religious thought.

16. Heredity. Minor course. The lectures and reports deal with the principal facts and problems of variation and heredity and are supplemented by collateral readings.

17. Phænogamic Botany. Recitations, lectures, and field work. This is a general course including the anatomy of the representative types and their relation to the environment; a study is made of the local flora.

18. Cryptogamic Botany. Recitations, lectures, and field work. This includes a general introduction to Botany, taking up the study of at least one plant from each of the groups, and working out their life histories. The laboratory work and lectures develop the subject from the evolutionary standpoint.

19. Elements of Forestry. A course covering the factors that control and regulate the development of our forests.

20. Bacteriology. Recitations, lectures, and laboratory work. The laboratory work includes the practice of the essential bacteriological methods. Much time is given to the study of bacteria found in water and in milk.

21. Mineralogy and Geology. Recitations, lectures, and laboratory work. A general course intended to give the leading facts and principles of Geology and the more important events in the Geological history of the earth. The development of the North American continent is studied in detail.

22. Economic Geology. Recitations, lectures, and laboratory work.

23. German Biological Literature. Junior year, one hour.

24. Materia Medica. Fall term, five hours.

MEDICAL PREPARATORY DEPARTMENT.

WILLIAM LEISER, M. D.,
LECTURER ON DIAGNOSIS.

WEBER L. GERHART, M. D.,
LECTURER ON ANATOMY.

CHARLES ALEXANDER GUNDY, M. D.,
LECTURER ON SURGERY.

GEORGE G. GROFF, M. D., LL. D.,
PROFESSOR OF ANATOMY AND PHYSIOLOGY.

NELSON FITHIAN DAVIS, SC. D.,
PROFESSOR OF BIOLOGY.

WILLIAM GUNDY OWENS, A. M.,
PROFESSOR OF CHEMISTRY.

The student can select from the medical subjects offered at Bucknell University such as will be required for advanced standing in the Medical College in which he may wish to complete his studies for the degree in medicine, and if his standing in such subject averages not less than nine, he will receive from the Department of Medicine in Bucknell University a Certificate of proficiency in those subjects and in such other subjects related to medical studies as he may have completed at Bucknell. These subjects are open only to students in the College of Liberal Arts, and the Certificate of proficiency is given to students only upon graduation, and in addition to the Diploma of the College of Liberal Arts.

THE BIOLOGICAL LABORATORY.

The Biological Laboratory is equipped with apparatus for carrying on work in the Organic Sciences. A large room has been fitted up especially for Microscopic work with equipments for fifteen students. Each student has a separate desk containing a microscope and the necessary reagents. The Laboratory is also supplied with collecting and bacteriological apparatus, with books of reference, and other appliances necessary for carrying on Biological research. Those taking Microscopy have the use of microtomes, incubators, reagents, etc. New apparatus is added as occasion demands. The work in Zoölogy is illustrated by marine and fresh-water forms, skeletons, and mounted specimens. In comparative Anatomy and Osteology the work is illustrated by skeletons repre-

senting different types of vertebrates. Physiology is illustrated with human skeletons, a life-size French manikin, prepared tissue, and numerous charts. Material for Human Anatomy is received from the State Anatomical Board in Philadelphia, and each student has the opportunity to dissect the whole human body. The work in Materia Medica is illustrated by specimens of crude drugs. The student in Histology and Embryology has a good supply of paraffin and collodion blocks. The work is illustrated with microscopic slides, alcoholic material, and French wax models. Each student is provided with dissecting instruments.

THE MUSEUM.

PROFESSOR NELSON FITHIAN DAVIS, SC. D., *Curator.*

GEORGE N. WILKINSON, *Assistant.*

The University possesses good collections of illustrative material in Botany, Zoölogy, Histology, Geology, Mineralogy, and Materia Medica. Parts of these collections are kept in the laboratories and used in classroom work.

Since the erection of the Carnegie Library two large rooms in this building have been set aside as a museum, and during the year the principal collections will be transferred from the Main College to these rooms. A special effort is being made to secure additions to the museum and objects will be thankfully received, especially such as can be used in laboratory work. Among these may be mentioned: marine and fresh-water forms of life; insects; skeletons of vertebrates; birds and mammals; botanical specimens; crystallized minerals and rocks.

A large collection now owned by the University consists of minerals and rocks, fossils, and Indian relics. It is especially desired to secure collections to illustrate the geology, minerals, flora, and fauna of Pennsylvania. Recently attention has been given to increasing the collection of Pennsylvania birds, and it is hoped that within a short time the University may possess a good series of mammals also.

ART COLLECTION.

MRS. PEARL S. BURPEE, A. B., *Curator.*

A room in the Carnegie Library ninety feet long has been set aside for the Art Collection. The collection consists of about one thousand specimens of paintings, casts, engravings, and helio-

types, and furnish valuable aid in illustrating the principles and history of painting and sculpture.

A course of lectures is given yearly to students of the Sophomore class on the History of Art.

THE LIBRARIES AND READING ROOMS.

Librarian: PROFESSOR WILLIAM E. MARTIN, A. M.

Assistants: EDWIN R. MANCHESTER AND KATHRYN VOORHIS.

The College Library. The general Library contains about twenty-six thousand volumes, besides many thousand pamphlets. The reading room is connected with the Library, and offers facilities for reading, studying, and writing. During term-time both are open forenoon and afternoon of each day, Sundays and holidays excepted, and both are maintained without extra charge to students. Students in all departments have free access to the shelves, and may draw two books at one time and retain them for two weeks, with the privilege of one renewal, if desired.

For greater convenience of instructors and students, collections of special technical books are also kept in the Laboratories of the Physical and Organic Sciences, and in the Astronomical Observatory.

The Library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in classroom work. In this way, while answering the purpose of general culture, it supplements in great measure the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education.

The Carnegie building for the accommodation of the Library was erected in 1905, the gift of Hon. Andrew Carnegie, D. C. L.

By aid of the Card Catalogue and Pool's Index to Periodicals, all the resources of the Library on any given subject are at once available.

Gifts to the Library of money and of books will be thankfully acknowledged by the librarian.

GENERAL COLLEGE ORDERS.

ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examination on the studies gone over by the class, during a student's absence, will be especially searching, and a high degree of attainment will be required. When a student is absent more than one fourth of the term for any reason, he is required to stand private examination in addition to the examination required of the class. One who is absent during the entire term must also necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterrupted, with the exception of holidays marked in the Calendar, until the last day of the term.

STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitation of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in permanent books, and constitutes the basis for determining the standing of the student during his connection with the institution. Unexcused absences from recitations are counted as zero in making up the weekly averages. *Excused* absences have half the effect in lowering a student's standing as unexcused absences, but a student may, at the option of the professor, do supplementary work to obviate the effect upon his standing of excused absences. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance, and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7; nor is any student recommended to the Board of Trustees for graduation in the general courses if his average standing during either his Freshman or Sophomore year is below 8; or if in his Junior year it is below 8.5; or if in his Senior year it is below 9. The passing grade for graduate students

is 9. No one will be recommended for graduation in the Courses of Jurisprudence, Biology, Chemistry, and in Civil Engineering, nor be granted a certificate in the Law or Medical studies, if his average is below 9.

Conditioned students are not recommended to the Board of Trustees for promotion. Students conditioned on entrance must discharge such conditions within the first year thereafter.

If the student has failed in the studies of a term, he will not be permitted to enter upon the studies of a subsequent term until he has passed in the subjects in which he failed, unless a postponement of examination to a definite time is granted by the Faculty.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude*; students who attain an average of 9.2 or more are graduated *magna cum laude*; those who attain an average of 9 or more are graduated *cum laude*.

EXAMINATIONS.

The dates of the examination are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint, but in no case is an examination granted a student in advance of the time appointed for the examination of the class.

Unless for very good reasons to the contrary, a student who is granted a special examination will be required to pay a fee therefor.

PUBLIC WORSHIP.

The College duties of each day are opened with religious services at Bucknell Hall, which all the students of the College are required to attend. Way of Life Meetings in charge of the President are held every Sunday afternoon in Bucknell Hall, when addresses upon religious and moral topics are presented.

Attendance upon public worship in some church in town on Sunday morning is required. Students are required to attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, when a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon and evening services are held in Bucknell Hall, attendance upon which is advised, but not required.

GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These laws must be observed, not only in their letter, but in their spirit. The atmosphere of the institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the institution.

PRESIDENT'S OFFICE HOURS.

The President of the University is in his office in the Main College building, every Tuesday, from 9.30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

OFFICE HOURS FOR THE COLLEGE WOMEN.

The Dean of the Women's Department will meet in his office College women who may desire advice or assistance from him.

VOLUNTARY SOCIETIES.

The Young Men's Christian Association is formed of students of the College. It receives religious periodicals and corresponds with kindred societies. A hall has been appropriated to the Society, and has been suitably furnished for religious meetings.

The Young Women's Christian Association, a voluntary society open to the officers and students of the College and Insti-

tute, meets weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes and College Settlement work are in charge of this Association.

Euepia; Theta Alpha. These are the two Literary Societies of the College for men. They hold meetings for Orations, Essays, and Debates. Each Society has a convenient hall, and by an arrangement of the Faculty will always have a nearly equal number of members.

The Zeta Literary Society is composed of young women admitted to any of the Courses in the College.

The Students' Publication Association is an organization which has in charge the issuing of the *Bucknell Mirror*. This periodical appears monthly during the collegiate year. The same Association publishes the *Commencement News* daily during Commencement week.

Another association of students publishes, weekly, during the school year, the *Orange and Blue*.

The Athletic Association of the college has been formed to encourage and regulate athletic sports. Considerable liberty is allowed the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without having secured the consent of the Faculty.

No student who is deficient in rhetorical or classroom work in any term shall be eligible to the office of manager or director in any student organization, or to be a member of any exhibiting organization, or of any contesting athletic team, or of any publishing or editing board during any subsequent term until such deficiency is made up.

HEALTH AND PHYSICAL CULTURE.

GEORGE W. HOSKINS, PHYSICAL DIRECTOR.

The Tustin Gymnasium has been provided for the physical training and development of young men. Young women have opportunity for physical training in the Gymnasium of the institute. These are now provided with the apparatus usually found in well-furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercise as may be required for his physical development. Regular exercise in the Gymnasium is required of all students during the winter term.

AIDS AND HONORS

PRIZES.

The prizes are awarded to the persons who in the judgment of the several committees attain the highest degree of excellence among the respective competitors, but no prize is bestowed unless a high degree of merit has been attained by the person receiving it.

THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, is awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training at Bucknell Academy.

The prize for 1907 was awarded to Max Conrad Wiant.

THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize of 1907 was awarded to Louis James Velte.

THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1907 was awarded to Charles Carpenter Fries.

DECLAMATION PRIZES FOR WOMEN.

Prizes for the best declamation, open for competition to the Sophomore and Freshman Classes, were awarded in 1907 respectively to Sarah Ellen Walters and Amy Julia Park.

THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded in 1907 to Walter Madison Corll.

The corresponding prize for Women was awarded in 1907 to Grace Virginia Royer.

THE JUNIOR DEBATE PRIZE.

Prizes are awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The first prize was awarded in 1907 to William Henry Bertin; the second to Charles Lucas Bromley.

THE HOLLOPETER PRIZE.

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

The prize was awarded in 1907 to Joseph Newton Weddle, Jr.

THE HERBERT TUSTIN PRIZE.

In memory of his deceased son, the late Professor Francis Wayland Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The first prize was awarded in 1907 to Harry Garfield Snavely; and the second to Clarence Anthony Bernhard.

THE HERBERT GOODMAN BARROWS PRIZE.

In memory of his son, the Reverend William Barrows, A. M., of the Class of 1867, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT GOODMAN BARROWS PRIZE FUND, the interest of which is to be forever paid annually as two prizes of equal amounts to the student or two students of the Senior Class who shall have attained the highest standing, respectively, in the Latin and in the Greek language and literature (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The prize for excellence in Greek was awarded in 1907 to Alfred Matthews Whitby; the prize for excellence in Latin was awarded in 1907 to Rebecca Shove.

THE JOHN SPRAGUE PRIZE.

The Reverend Thomas Harry Sprague, Ph. B., of the Class of 1897, offers an annual prize to the student who excels in the courses in the English Bible, to be named in memory of his father, THE JOHN SPRAGUE ENGLISH BIBLE PRIZE.

The prize was awarded in 1907 to Frederic Russell Bower and Frances Estelle Williams.

THE CHAPLAIN J. J. KANE PRIZE.

The Reverend James J. Kane, A. M., Chaplain of the United States Navy, and a graduate from the Theological Department of this University, of the Class of 1867, has established a prize which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded in 1907 to Charles Francis Potter.

THE ANNA MOORE HARE PRIZE.

In memory of his daughter, Anna Moore Hare, the Reverend Calvin Aurand Hare, A. M., has established an annual prize in Logic, to be awarded to that student at graduation who shall have done the best work in Logic, regard being had both to the amount and the quality of the work.

The prize was awarded in 1907 to Theodore Bland Hoy.

SCHOLARSHIPS.

I. THE BUCKNELL SCHOLARSHIPS.

The William Bucknell Scholarships, twenty in number and of \$1,000 each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in life. The income from this fund is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor Rockwood.

II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

III. THE LIVINGSTON SCHOLARSHIPS.

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the ministry.

IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of O. W. Longan, Esq., is available for a student for the ministry from Lycoming County, Pennsylvania.

V. THE LEWIS E. JONES SCHOLARSHIP.

Was established from a legacy of the late Lewis E. Jones, and is available for students of Welsh descent to the amount of the income from five hundred dollars.

VI. THE JOHN HOWARD HARE SCHOLARSHIP.

Established by the Reverend Calvin Aurand Hare, A. M., in memory of his son, John Howard Hare, available for a student for the ministry upon recommendation of the Pennsylvania Baptist Education Society and the President of the University.

VII. THE VELOLA E. HALL SCHOLARSHIP.

Established by the Reverend Henry Chandler Hall, A. M., Class of 1882, in memory of his daughter, Velola E. Hall, A. B., Class of 1904, available for a student in the Women's College.

VIII. THE MEDICO-CHIRURGICAL SCHOLARSHIP.

The Medico-Chirurgical Medical College of Philadelphia offers a scholarship covering tuition in that college to the student from Bucknell University who evinces the best preparation and aptitude for medical work.

IX. THE PHILADELPHIA ALUMNÆ SCHOLARSHIP.

This scholarship, founded by the Philadelphia Alumnæ Club, is available for a young woman student from Philadelphia.

X. THE GENERAL MILLER SCHOLARSHIPS.

Ten scholarships have been established by Major-General Charles Miller, A. M., to be awarded to worthy members of the graduating class.

XI. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending college. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

EXTRA STUDIES.

In order to promote special scholarship in the several departments of study the following provision has been made:

1. Any student who has obtained an average of 9 in the studies of the previous term may take special work in any department of the College under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of 9 in all the studies of the current term, and pass a satisfactory examination in the voluntary study, the work shall be credited to him.

4. Only one such study may be pursued by any one student during any one term. A student may also take two such minor studies in the Summer vacation.

5. The Professor with whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations at the Professor's option.

6. The amount and quality of minor work shall be taken into account in awarding honors at graduation, but is not counted toward any degree.

EXPENSES.

The College charges amount to \$110 per annum, for those who room in the College buildings, and \$100 for those who room in the town. The College charges include library fee, gymnasium fee, and other incidental fees common to all students, as well as tuition. Tuition is rated at \$50 per annum, and is included in the College charges. Students in the Course in Civil or Electrical Engineering are charged \$5 per term extra. Students in the other Courses who take an engineering subject are charged the same rates as students in engineering. This charge is for the regular work; when a fourth study or honor study is taken, an extra charge is made. Graduation fee and diploma, \$10. Masters' Degree and Diploma, \$10.

The Study Rooms in the Main College are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled.

An extra charge is made for electric lighting of private rooms.

An extra charge ranging from \$5 to \$10 per term is also charged for rooms in the East and in the West College.

An additional charge is made for rooms cared for by the Institution.

Young men in the Collegiate Department, who so desire, can have furnished rooms in the West College, with board in the Academy.

Young women in the Collegiate Department room and board in the Women's College. The standard annual charge for board, tuition, furnished room, heating, lighting, is \$280. An extra charge for choice rooms in the Bucknell Cottage and in New Cottage, ranging from \$5 to \$10 per term, is made.

The assignment of rooms is for one year, and is made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens. A deposit of \$10 is required when a room is chosen. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

In the Laboratories students pay for chemicals used and for apparatus broken or damaged. In the chemical laboratory \$5 per term is charged for gas, water, and general chemicals for each course, except Courses 1 and 2, for which the charge is \$2.50. A deposit of \$5 per course is required to cover breakage and cost of extra chemicals.

A small fee is charged also in each of the elective courses in the departments of Mechanics and of Organic Science and in Surveying and Engineering, for the use of instruments and for material used.

Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

Students can board in clubs at a cost of from \$2.00 to \$2.50 per week. Boarding can be obtained in private families at \$3.00 or \$4.00 per week, or at the table of the Bucknell Academy at \$3.00 per week. Washing is done at 25 cents per week. No self-boarding is allowed in the College buildings.

FIFTY-SEVENTH ANNUAL COMMENCEMENT.

WEDNESDAY, JUNE 19, 1907.

HONORS AT GRADUATION.

ORATIONS SUMMA CUM LAUDE.

CLARENCE ANTHONY BERNHARD,	LEO LAWRENCE ROCKWELL,
ANNA GALBRAITH,	FRANCES REBECCA SHOVE,
HELEN MAE OLDS,	LILA MABEL SILL,
CHARLES FRANCIS POTTER,	SYDNEY HOMER SMITH,
WILLIAM WESLEY RAKER,	HARRY GARFIELD SNAVELY,
JONATHAN WOLFE.	

ORATIONS MAGNA CUM LAUDE.

PERCY CHESTER ANDREWS,	EDWIN WILDE SAYLOR,
CHAUNCEY EUGENE BROCKWAY,	JACOB HARRY SCHUCH,
LEVI CARL,	FRANK SMIGELSKY,
PETER GARFIELD COBER,	MARY GEORGIANA STANTON,
MARY EARLY GALBRAITH,	WILSON WILLARD STAYER,
ERNEST MILTON GRESS,	ALFRED MATTHEWS WHITBY,
THEODORE BLAND HOY,	EARLE WAYNE WHITNEY,
ELKANAH BUNCE HULLEY,	FRANCES ESTELLE WILLIAMS.

ORATIONS CUM LAUDE.

CHARLES DARCIE BAER,	RUTH CUSHMAN JONES,
FREDERIC RUSSELL BOWER,	THOMAS BEEBER LOCKARD,
WALTER BURNETTE BRINKER,	LAWRENCE OSCAR MANLEY,
JOHN IRA CATHERMAN,	NORMAN EDWARD MCCALL,
MABEL ELIZABETH GLEASON,	JOHN LAMBERT MINOR,
HORACE LEROY HALL,	CALVIN OBERDORF,
AMMON GROSS HESS,	GILBERT SOMERS PEREZ,
WILLIAM DUDLEY HINMAN,	HARVEY DELROY REESE,
COIT ROSCOE HOECHST,	GEORGE ALANSON RIGGS,
WILLIAM CURRIE HULLEY,	EMMA PORTER YOUNGMAN,
FREDERIC RUSSELL ZUGSCHWERT.	

ORATIONS.

HOMER HASTINGS ADAMS,	GEORGE WILLIAM HAWK,
WENDELL MCMINN AUGUST,	WILLIAM CARPENTER KELLY,
MARSHALL LEON BENN,	GEORGE WASHINGTON LEACH,
ERNEST SABIN BURROWS,	MARGARET WYNONA LESHER,
WILLIAM FREDERIC ELSESSER,	URSULA DAWES PARMLEY,
GORDON EVANS,	MARGARET ADELIA ROWLANDS,
ELLISON MCLEAN FASSET,	THOMAS WAYNE SCHULTZ,
CHESTER HAROLD GODSHALL,	CLARKE SNYDER,
HAVARD GRIFFITH,	CHARLES CARROLL WAGNER,
CHARLES MOSS GRIMMINGER,	JOSEPH NELSON WEDDLE,
SPENSER TILLINGHAST HARRIS,	MARY SABINE WEDDLE.

DEGREES CONFERRED ON EXAMINATION.

MASTER OF ARTS.

JEREMIAH STAMEY AUSERMAN,	WILLIAM EUGENE DEMELT,
EMORY OLIVER BICKEL,	JOHN HENRY EISENHAEUER,
PERCY MYRON BULLARD,	PHARES GROSS HESS,
JOSEPH LINCOLN CHALLIS,	BENJAMIN EARL PHILLIPS,
JOSEPH HUTCHINSON COOKE,	PHILIP REILLY,
HARRY ALLEN CORYELL,	MORTON RUTHERFORD SHELDON,
CHARLES MILTON TEUFEL.	

MASTER OF SCIENCE.

WILLIAM ANDREW BARTOL,	GEORGE SHORKLEY,
MARION BRIGGS DAVIS,	JOHN BEISEL SMILEY,
LEVI JOSEPH ULMER.	

BACHELOR OF ARTS.

CLARENCE ANTHONY BERNHARD	ANNA GALBRAITH,
(Jurisprudence),	MARY EARLY GALBRAITH,
CHAUNCEY EUGENE BROCKWAY	HAVARD GRIFFITH,
(Jurisprudence),	HORACE LEROY HALL,
LEVI CARL,	SPENSER TILLINGHAST HARRIS,
PETER GARFIELD COBER	WILLIAM DUDLEY HINMAN
(Jurisprudence),	(Jurisprudence),
WILLIAM FREDERIC ELSESSER,	COIT ROSCOE HOECHST,

BACHELOR OF ARTS—Continued.

GEORGE WASHINGTON LEACH,	SYDNEY HOMER SMITH,
CHARLES FRANCIS POTTER,	ALFRED MATTHEWS WHITBY,
LEO LAWRENCE ROCKWELL,	EARLE WAYNE WHITNEY
EDWIN WILDE SAYLOR,	(Jurisprudence),
FRANCES REBECCA SHOVE,	EMMA PORTER YOUNGMAN.
FRANK SMIGELSKY	
(Jurisprudence),	

BACHELOR OF PHILOSOPHY.

PERCY CHESTER ANDREWS,	MARGARET ADELIA ROWLANDS,
ERNEST MILTON GRESS,	LILA MABEL SILL,
RUTH CUSHMAN JONES,	CLARKE SNYDER,
HELEN MAE OLDS,	MARY GEORGIANA STANTON,
	WILSON WILLARD STAVER.

BACHELOR OF SCIENCE.

HOMER HASTINGS ADAMS,	WILLIAM CARPENTER KELLEY,
WENDELL MCMINN AUGUST,	MARGARET WYNONA LESHER,
CHARLES DARCIE BAER,	LAWRENCE OSCAR MANLEY,
MARSHALL LEON BENN,	NORMAN EDWARD MCCALL,
FREDERIC RUSSELL BOWER,	URSULA DAWES PARMLEY,
WALTER BURNETTE BRINKER,	WILLIAM WESLEY RAKER,
GORDON EVANS,	HARVEY DELROY REESE,
ELLISON MCLEAN FASSETT,	GEORGE ALANSON RIGGS,
MABEL ELIZABETH GLEASON,	THOMAS WAYNE SCHULTZ,
CHARLES MOSS GRIMMINGER,	HARRY GARFIELD SNAVELY,
GEORGE WILLIAM HAWK,	CHARLES CARROLL WAGNER,
AMMON GROSS HESS,	JOSEPH NELSON WEDDLE,
THEODORE BLAND HOY,	MARY SABINE WEDDLE,
ELKANAH BUNCE HULLEY,	FRANCES ESTELLE WILLIAMS,
FREDERIC RUSSELL ZUGSCHWERT.	

IN CIVIL ENGINEERING.

ERNEST SABIN BURROWS,	JOHN LAMBERT MINOR,
JOHN IRA CATHERMAN,	CALVIN OBERDORF,
CHESTER HAROLD GODSHALL,	JACOB HARRY SCHUCH,
THOMAS BEEBER LOCKARD,	JONATHAN WOLFE.

IN BIOLOGY.

GILBERT SOMERS PEREZ.

HONORARY DEGREES CONFERRED.

DOCTOR OF LAWS.

JOHN VAN RENSSELAER HOFF, A. M., SURGEON U. S. A.

DOCTOR OF DIVINITY.

FRANK HOLBROOK COOPER, A. M., B. D.

DOCTOR OF SCIENCE.

HENRY MATTHEW STEPHENS, A. M.

MASTER OF SCIENCE.

WILLIS YARDLEY WELCH.

MASTER OF ARTS.

DORA E. WATROUS SPRATT.

COMMENCEMENT ADDRESSES.

Baccalaureate Sermon,	THE PRESIDENT
Sermon, Education Society,	PROFESSOR E. B. POLLARD, D. D.
Address before the Literary Societies	LINCOLN HULLEY, PH. D.
Address before the Alumni Association,	
	REV. JAMES MADISON HARE, PH. B.
Poem before the Alumni Association, ...	REV. EDWIN R. POWELL, A. B.
Annual Address,	TALCOTT WILLIAMS, LL. D.
Address to the College Class, ...	THE PRESIDENT

TEACHERS' PERMANENT CERTIFICATES.

Awarded by the State of Pennsylvania to Graduates of Bucknell College, 1906-1907:—

EMORY OLIVER BICKEL, PH. B., A. M.

SAMUEL G. WILLIAMS, SC. B.

LEVI CARL, A. B.

JESSIE JUNE WHEELER, A. B., A. M.

WILSON WILLARD STAVER, PH. B.

HARVEY DELROY REESE, SC. B.

ELIZABETH EVA REED, A. B.

NELLIE JANE THOMAS, A. B.

MARGARET WYNONA LESHER, SC. B.

WILLIAM WESLEY RAKER, SC. B.

HARRY GARFIELD SNAVELY, SC. B.

GERTRUDE STEPHENS, PH. B.

HARRISON ALVIN SPOTTS, A. B.

ROYAL IVAN KNAPP, A. B.

IRVIN ALBERT BARTHOLOMEW, SC. B.

ELBINA LAVINIA BENDER, A. B.

PETER GARFIELD COBER, PH. B.

BACCALAUREATE THESES.

-
1. A Comparison of Plato's Republic with Montesquieu's Spirit of the Law as to Government,
HOMER HASTINGS ADAMS.
 2. Are Railroads an Evil?
PERCY CHESTER ANDREWS.
 3. Origin and Development of the American Railroads,
WENDELL MCMINN AUGUST.
 4. Justice: Ancient and Modern,
CHARLES DARCIE BAER.
 5. Signaling Without Wires,
MARSHALL LEON BENN.
 6. The Unwritten Law,
CLARENCE ANTHONY BERNHARD.
 7. The Roman Catholic Church and the Divinity of Christ,
FREDERIC RUSSELL BOWER.
 8. Psychology of Conversion,
WALTER BURNETT BRINKER.
 9. The Effects of Shipping Subsidies,
CHAUNCEY EUGENE BROCKWAY.
 10. A Comparison of Brick and Asphalt Paving,
ERNEST SABIN BURROWS.
 11. A Glimpse at George Eliot's Works,
LEVI CARL.
 12. The Relation of Electric Inventions to Human Progress,
JOHN IRA CATHERMAN.
 13. The Rise of Individualism,
PETER GARFIELD COBER.
 14. Napoleon as a Liberator from Feudalism,
WILLIAM FREDERIC ELSESSER.
 15. The Development of the Atomic Theory,
GORDON EVANS.
 16. Processes of Knowledge,
ELLISON MCLEAN FASSETT.

17. Social Ideals in the Modern German Drama,
ANNA GALBRAITH.
18. The Contrast Between the Schools of Dickens and Those of
To-day,
MARY EARLEY GALBRAITH.
19. The Life and the Reforms of Francis of Assisi,
MABEL ELIZABETH GLEASON.
20. Asphalt,
CHESTER HAROLD GODSHALL.
21. Charlemagne and His Relation to Education,
ERNEST MILTON GRESS.
22. Napoleon and German Unity,
HAVARD GRIFFITH.
23. The Message of Jeremiah,
CHARLES MOSS GRIMMINGER.
24. Justice: A Comparison of Sidgwick and Plato,
HORACE LEROY HALL.
25. Hawaii: A Diplomatic History,
SPENSER TILLINGHAST HARRIS.
26. Immunity,
GEORGE WILLIAM HAWK.
27. Comparative Neurology of Vertebrates,
AMMON GROSS HESS.
28. Justinian and His Contribution to the Law,
WILLIAM DUDLEY HINMAN.
29. Shakspeare's Moral System in Hamlet,
COIT ROSCOE HOECHST.
30. The Transcendency of Freedom,
THEODORE BLAND HOY.
31. The Technique of the Short Story,
ELKANAH BUNCE HULLEY.
32. James Thompson's Contribution to Literature,
WILLIAM CURRIE HULLEY.
33. Prehension of Food by Animals,
RUTH CUSHMAN JONES.
34. The Making of Railroad Rates,
WILLIAM CARPENTER KELLEY.
35. Railway Legislation and the Farmer,
GEORGE WASHINGTON LEACH.

36. The City, the Greatest Social Factor,
MARGARET WYNONA LESHER.
37. Dry Farming,
THOMAS BEEBER LOCKARD.
38. Utilitarianism,
ESAU HERBERT LOOMIS.
39. The Nebular Theory,
LAWRENCE OSCAR MANLEY.
40. History of the Bicameral System,
NORMAN EDWARD MCCALL.
41. Development of Illumination,
JOHN LAMBERT MINOR.
42. Construction and Maintenance of American Country Roads,
CALVIN OBERDORF.
43. The Poetry of Poe,
HELEN MAE OLDS.
44. The Religion of Egypt,
URSULA DAWES PARMLEY.
45. Collectivism; An Aid to Upward Development,
GILBERT SOMERS PEREZ.
46. The Youth of Religion and the Religion of Youth,
CHARLES FRANCIS POTTER.
47. Democratic Tendencies,
WILLIAM WESLEY RAKER.
48. The Evolution of the English Drama,
HARVEY DELROY REESE.
49. The Hebrew Nation in Comparison with Plato's Ideal State,
GEORGE ALANSON RIGGS.
50. Lessing's Conception of Religion,
LEO LAWRENCE ROCKWELL.
51. The Laws of Life,
MARGARET ADELIA ROWLANDS.
52. Social Teachings of Jesus and of Plato,
EDWIN WILDE SAYLOR.
53. Irrigation: The Causes Which Led to the Passing of the Rec-
lamation Law,
JACOB HARRY SCHUCH.
54. The Effect of Christianity on Greek Philosophy,
THOMAS WAYNE SCHULTZ.

55. Shakspeare's Fools,
FRANCES REBECCA SHOVE.
56. The City: The Hope of Democracy,
LILA MABEL SILL.
57. Future of Militarism,
FRANK SMIGELSKY.
58. Caste as a Barrier to Progress,
SYDNEY HOMER SMITH.
59. The Relation of Unity and Efficiency in the National Life,
HARRY GARFIELD SNAVELY.
60. Advantages and Disadvantages of School Athletics,
CLARKE SNYDER.
61. Magic: Its Influence on Medical Practice,
MARY GEORGIANA STANTON.
62. A Comparison of Plato's State with That of Hegel,
WILSON WILLARD STAVER.
63. Some of the Chemical Phases of the Blast Furnace,
CHARLES CARROLL WAGNER.
64. The Young Draughtsman,
JOSEPH NELSON WEDDLE.
65. Paul's Third Missionary Journey,
MARY SABINA WEDDLE.
66. The Passion Week in the Life of Christ,
ALFRED MATTHEWS WHITBY.
67. The Family as the Educator of the Race,
EARLE WAYNE WHITNEY.
68. Emerson's Social Ideals,
FRANCES ESTELLE WILLIAMS.
69. The Ideal Education in Civil Engineering,
JONATHAN WOLFE.
70. Wallenstein,
EMMA PORTER YOUNGMAN.
71. Color Photography,
FRED RUSSELL ZUGSCHWERT.

THE ACADEMY.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

BENJAMIN F. THOMAS, A. M., PRINCIPAL,
LATIN.

MARTIN LINNAEUS DRUM, PH. B.,
MATHEMATICS.

PHARES GROSS HESS, A. M.,
SCIENCE AND GERMAN.

HENRY TAYLOR MEYER, A. B.,
ENGLISH.

JOSEPH LINCOLN CHALLIS, A. M.,
HISTORY.

SYDNEY HOMER SMITH, A. B.,
GREEK AND LATIN.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR OF THE UNIVERSITY.

ACADEMY STUDENTS.

FOURTH FORM.

CLASSICAL COURSE.

NAME.	RESIDENCE.	ROOM.
ARTHUR R. GERHART,	<i>Lewisburg.</i>	North Third Street
COLEMAN JOHN HARRIS,	<i>Lewisburg.</i>	University Avenue
JAMES PARDON HARRIS,	<i>Lewisburg.</i>	University Avenue
ROBERT RAY MCCOMBS,	<i>McClellandtown.</i>	No. 8, Main Hall

LATIN SCIENTIFIC COURSE.

RAY ROSS GONSER,	<i>Lewisburg.</i>	South Third Street
ROBERT WILLIAM MEYER,	<i>Rebersburg.</i>	No. 8, Main Hall

SCIENTIFIC COURSE.

LE ROY NEWTON BOWES,	<i>Shamokin Dam.</i>	Shamokin Dam
STANLEY QUAY BROWN,	<i>Rochester.</i>	No. 15, East Hall
LAWRENCE AMBROSE HENDERSON,	<i>Montgomery.</i>	Montgomery
DALE DAVIS HOLLENBAUGH,	<i>Lewisburg.</i>	South Fourth Street
HAROLD WILLIAM MUSSER,	<i>Lewisburg.</i>	South Third Street
CHARLES CLARK WALES,	<i>Corry.</i>	No. 9, Main Hall

THIRD FORM.

CLASSICAL COURSE.

NAME.	RESIDENCE.	ROOM.
GEORGE FREEMAN HAINES,	<i>Winfield.</i>	Winfield
FRANK RUSSELL HAMBLIN,	<i>Lewisburg.</i>	South Third Street
JOHN FRANKLIN LONG,	<i>Flemington.</i>	No. 15, East Hall
ANDREW M. LOWRY,	<i>Dewart.</i>	Dewart
JAMES FOCHT MCCLURE,	<i>Lewisburg.</i>	University Avenue
JOHN MCCULLOCH,	<i>Punxsutawney, R. F. D.</i>	No. 12, Main Hall
HAROLD AUGUSTUS SHAFFER,	<i>Lewisburg.</i>	South Second Street
LAWRENCE ZARRILLI,	<i>Trenton, N. J.</i>	No. 17, East Hall

SCIENTIFIC COURSE.

HAMILL B. ALEXANDER,	<i>Marietta.</i>	No. 23, East Hall
JACOB EVANS BOYER,	<i>Linfield.</i>	No. 21, East Hall
NORMAN ROBERT DAVIS,	<i>Allenwood.</i>	Allenwood
MICHAEL GEORGE DEWEY,	<i>Ashland.</i>	No. 19, East Hall
FREDERICK KNAPP GETZ,	<i>Lewisburg.</i>	North Fourth Street
CHARLES WAGNER GWINNER,	<i>St. Clair.</i>	No. 11, East Hall
RAYMOND BLAINE HUGHES,	<i>Strong.</i>	No. 8, East Hall
HENRY ELLSWORTH KERBEL,	<i>Ashland.</i>	No. 4, East Wing
JOHN DALLAS MARKS,	<i>Middleburg.</i>	No. 13, East Hall

NAME.	RESIDENCE.	ROOM.
LEO DE LANCE PARRY,	<i>Girardville.</i>	No. 11, East Hall
HARRY GUNDY PAWLING,	<i>Bucknell.</i>	Bucknell
WALTER AUBSON PENNINGTON,	<i>Millville, N. J.</i>	No. 20, East Hall
STERLING THOMAS POST,	<i>Dalton, E. F. D. No. 3.</i>	No. 12, Main Hall
PAUL LOWERY STEIN,	<i>Lewisburg.</i>	North Third Street

SECOND FORM.

GUSTAVO BERNARD, JR.,	<i>Havana, Cuba.</i>	South Fifth Street
CHARLES ISAAC BROWN,	<i>Shamokin Dam.</i>	Shamokin Dam
CLAUDE SWEIGERT BRUNNER,	<i>Reinholds Station.</i>	No. 11, Main Hall
FREDERICK LINCOLN CONDICT,	<i>Trenton, N. J.</i>	Market Street
JOHN CALVIN DENNISON,	<i>Coal Glen.</i>	No. 6, Main Hall
ROBERT KENDIG DOWNS,	<i>Sunbury.</i>	Sunbury
WILLIAM JACKSON FOLLMER,	<i>Lewisburg.</i>	North Fifth Street
WALTER DEMPSTER GEMMILL,	<i>Allenwood.</i>	Allenwood
GORDON ELMER GRIFFITH,	<i>Girardville.</i>	No. 20, East Hall
ROBERT SPURGEON HALL,	<i>Lansford.</i>	No. 6, Main Hall
WALTER WILLIAM HARRIS,	<i>Lewisburg.</i>	University Avenue
WILLIAM FLEMING HOLLIDAY,	<i>Bellwood.</i>	No. 14, East Hall
HOWARD RICHARD KAUFFMAN,	<i>Milton.</i>	Milton
HOWARD LINTON,	<i>Grayton, Md.</i>	No. 7, Main Hall

NAME.	RESIDENCE.	ROOM.
JOHN AKE McKEAGE,	<i>Burnside.</i>	South Third Street
ROY LINWOOD McTAVISH,	<i>Utahville.</i>	No. 2, East Hall
JOSEPH OVARES,	<i>Havana, Cuba.</i>	South Fifth Street
HORACE FLOYD QUICK,	<i>Trenton, N. J.</i>	No. 18, East Hall
FRANK RAYMOND RICHARDS,	<i>Crafton.</i>	No. 10, East Hall
JOHN MILTON RINE,	<i>McKees Half Falls.</i>	No. 17, East Hall
ELI SELSER SENTMAN,	<i>Philadelphia.</i>	No. 7, Main Hall
DILLINGER HIXON SHAFFER,	<i>Greensburg.</i>	No. 9, East Hall
HENRY WARREN VAN PELT,	<i>Lewisburg.</i>	South Third Street
WILLIAM WATKIN WATERS,	<i>Nanticoke.</i>	No. 10, Main Hall

FIRST FORM.

ALBERT MONTAGUE MOSTYN,	<i>New York City.</i>	No. 10, East Hall
NESTOR LEWIS OVARES,	<i>Havana, Cuba.</i>	South Fifth Street
HARRY FRANCE PAGE,	<i>New York City.</i>	No. 5, Main Hall
THEODORE VICTOR RUTLER,	<i>Sunbury.</i>	Sunbury
CHARLES HENRY WILKINSON,	<i>Prescottsville.</i>	No. 5, Main Hall

STUDENTS PURSUING SELECT STUDIES.

CHARLES BAKER BERNHART,	<i>Lewisburg.</i>	North Second Street
SAMUEL BLAIR, JR.,	<i>Albuquerque, New Mexico.</i>	No. 6, Main Hall
EARL MITCHELL BLOOM,	<i>Troy.</i>	No. 13, East Hall

NAME.	RESIDENCE.	ROOM.
JOHN WATSON CLARK,	<i>Glen Campbell.</i>	No. 21, East Hall
JOHN RAYMOND CLOYD,	<i>Orbisonia.</i>	No. 10, East Hall
RALPH EMERSON CLOYD,	<i>Orbisonia.</i>	No. 10, East Hall
GEORGE DONALD COOK,	<i>Millmont.</i>	No. 9, Main Hall
NICHOLAS D'ONOFRIO,	<i>Harrisburg.</i>	No. 23, East Hall
CHARLES EDGAR DREHER,	<i>Paxinos.</i>	No. 21, East Hall
EDWARD PATCHIN DUFTON,	<i>Clearfield.</i>	No. 8, East Hall
WALTER H. EDWARDS,	<i>Wilmington, Del.</i>	No. 29, East Wing
ELMER ELLSWORTH FAIRCHILD,	<i>Lewisburg, R. F. D. No. 2.</i>	Lewisburg
MYRON EUGENE FAIRCHILD,	<i>Montandon.</i>	Montandon
IVOR DAVID FENTON,	<i>Mahanoy City.</i>	No. 22, East Hall
JAMES ROBERT GEMMILL,	<i>Allenwood.</i>	Allenwood
AUGUSTUS WILLIAM GLEASON,	<i>Franklin.</i>	No. 22, East Hall
ELMER THADDEUS HAINES,	<i>Juniata.</i>	No. 4, Main Hall
EDWARD MANDEVILLE KECK,	<i>White Haven.</i>	No. 9, East Hall
DANIEL KIST, JR.,	<i>Juniata.</i>	No. 10, Main Hall
JOHN AUGUSTUS LEISER,	<i>Lewisburg, R. F. D. No. 2.</i>	Lewisburg
IRA MITTERLING,	<i>St. George Street, Lewisburg</i>	
PAUL LEON RIEHL,	<i>Richfield.</i>	Market Street
LOUIS DAVID ROBERTS,	<i>Lewisburg.</i>	No. 4, Main Hall
NORMAN WILDWOOD RYAN,	<i>Juniata.</i>	No. 23, East Hall
	<i>Wildwood, N. J.</i>	

NAME.	RESIDENCE.	ROOM.
CECIL TEGGART SMITH,	<i>Dunbar.</i>	No. 6, Main Hall
PAUL HOTTENSTEIN STAHL,	<i>Lewisburg, R. F. D. No. 2.</i>	Lewisburg
BENJAMIN ANDERSON STAUFFER,	<i>Mechanicsburg.</i>	No. 11, Main Hall
CHARLES HAMILTON STEELE,	<i>Washington.</i>	No. 23, West Wing
ROBERT AUGUSTUS STOUGHTON,	<i>Lewisburg.</i>	Market Street
JOHN LESTER STRASSNER,	<i>Lewisburg, R. F. D. No. 2.</i>	Lewisburg
LOUIS ADAM WALDNER,	<i>Ashland.</i>	No. 19, East Hall
PHILLIP ANDREW WALTZ,	<i>Williamsport.</i>	No. 2, East Hall
HARRISON WESTOVER,	<i>Garman's Mills.</i>	No. 14, East Hall

SUMMARY.

The Fourth Form, Classical.....	4
Latin Scientific.....	2
Scientific.....	6
	—12
The Third Form, Classical.....	8
Scientific.....	14
	—22
The Second Form.....	24
The First Form.....	5
Students Pursuing Select Studies.....	32
	—61
Total in the Academy.....	95

Students enrolled in other departments of the University who receive instruction in the Academy classes:

Greek of the Fourth Form.....	2
Third Form.....	4
Latin of the Fourth Form.....	2
Second Form.....	0
Geometry.....	1
	— 9
Total receiving instruction in Academy classes,	104

COURSES OF STUDY.

The Academy is designed to fit pupils for College, for Teaching, or for Business. It offers three Courses of Study.

I. The Classical Course extends through four years and is arranged to meet the requirements for admission to College. The Study of Latin begins with the First Form and continues for four years and two terms. The study of Greek begins with the Third Form and continues for two years and one term. Notwithstanding the time given to these branches of study, fully one half of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

II. The Latin Scientific Course extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek division substitutes the Greek of the Third and Fourth Forms for the Latin and includes Historical and Scientific subjects.

III. The Scientific Course extends through four years and prepares for the Courses in General Science, in Biology, in Chemistry, and in Civil and Electrical Engineering in College. For the Vergil and the Cicero of the Latin Scientific Course, it substitutes one term of Advanced English, one term of Chemistry, and two years of German.

Students who are able to accomplish more work in the allotted time than is required by the Course may pursue honor work in the Classics by reading, under the instructor's direction, Cæsar's Civil War, Cicero's Letters, or Vergil's Eclogues, and Books IV, V, VI of the Iliad, or the Cyropædia.

Students will be admitted to the Form for which they are prepared.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific or the Latin Scientific Course well adapted to prepare them for teaching or for business.

Special classes in History and Literature are maintained to meet adequately the requirements of applicants for examination and registration as students at law, under the rules adopted by the Supreme Court of Pennsylvania.

CURRICULA

Arabic numerals indicate the number of recitations a week
in each subject.

I. THE CLASSICAL COURSE.

FIRST FORM.

- | | |
|-------------------------------------|----------------------------|
| I. TERM—Algebra, 5,
Latin, 5, | History, 5,
English, 5. |
| II. TERM—Algebra, 5,
Latin, 5, | English, 5,
Drawing, 5. |
| III. TERM—Geometry, 5,
Latin, 5, | History, 5,
English, 5. |

SECOND FORM.

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| I. TERM—Higher Arithmetic, 5,
Cæsar, Introduction, 5, | Ancient History, 5,
Rhetoric, 5. |
| II. TERM—
<div style="display: inline-block; vertical-align: middle; margin-left: 20px;"> { <div style="display: inline-block; vertical-align: middle;"> Bookkeeping,
 Commercial Arithmetic, 5,
 Cæsar, 5, </div> </div> | Ancient History, 5,
Literature, 5. |
| III. TERM—Physical Geography, 5,
Cæsar, 5, | Ancient History, 5,
Literature, 5. |

THIRD FORM.

- | | |
|----------------------------------|----------------------------|
| I. TERM—Algebra, 5,
Cæsar, 5, | Greek, 5,
Elocution, 5. |
|----------------------------------|----------------------------|

- | | |
|-------------------------------------|--------------------------------|
| II. TERM—Algebra, 5,
Cæsar, 5, | Greek, 5,
Literature, 5. |
| III. TERM—Algebra, 5,
Cicero, 5, | Anabasis, 5,
Literature, 5. |

FOURTH FORM.

- | | |
|-------------------------------------|----------------------------|
| I. TERM—Geometry, 5,
Vergil, 5, | Cicero, 5,
Anabasis, 5. |
| II. TERM—Geometry, 5,
Vergil, 5, | { Ovid, } 5,
Cicero, } |
| | Iliad, 5. |
| III. TERM—Physics, 5,
Vergil, 5, | Iliad, 5,
Anabasis, 5. |

II. THE LATIN SCIENTIFIC COURSE.

FIRST FORM.

- | | |
|-------------------------------------|----------------------------|
| I. TERM—Algebra, 5,
Latin, 5, | History, 5,
English, 5. |
| II. TERM—Algebra, 5,
Latin, 5, | English, 5,
Drawing, 5. |
| III. TERM—Geometry, 5,
Latin, 5, | History, 5,
English, 5. |

SECOND FORM.

- | | |
|----------------------------------------------------------|-------------------------------------|
| I. TERM—Higher Arithmetic, 5,
Cæsar, Introduction, 5, | Ancient History, 5,
Rhetoric, 5. |
| II. TERM— | |
| { Bookkeeping, | Ancient History, 5, |
| { Commercial Arithmetic, 5, | Literature, 5. |
| Cæsar, 5, | |

- III. TERM—Physical Geography, 5, Literature, 5,
Cæsar, 5, Ancient History, 5.

THIRD FORM.

- I. TERM—Algebra, 5, Elocution, 5,
Cæsar, 5,
German, 5, or History of England, 5.
- II. TERM—Algebra, 5, Literature, 5,
Cæsar, 5,
German, 5, or Civics, 5.
- III. TERM—Algebra, 5, Literature, 5,
Cicero, 5,
German, 5, or Botany, 5.

FOURTH FORM.

- I. TERM—Geometry, 5, *German, 5, or French, 5,*
Vergil, 5, *or Physiology, 5,*
Cicero, 5, *or Chemistry, 5.*
- II. TERM—Geometry, 5, } Cicero, }
Vergil, 5, } Ovid, } 5,
German, 5, or Astronomy, 5, or French, 5.
- III. TERM—Physics, 5, *German, 5,*
Vergil, 5, *or French, 5,*
Solid Geometry, 5, *or Geology, 5.*

III. THE SCIENTIFIC COURSE.

FIRST FORM.

- I. TERM—Algebra, 5, History, 5,
Latin, 5, English, 5.
- II. TERM—Algebra, 5, English, 5,
Latin, 5, Drawing, 5.

- | | |
|------------------------|-------------|
| III. TERM—Geometry, 5, | History, 5, |
| Latin, 5, | English, 5. |

SECOND FORM.

- | | |
|----------------------------------|---------------------|
| I. TERM—Higher Arithmetic, 5, | Ancient History, 5, |
| Cæsar, Introduction, 5, | Rhetoric, 5. |
| II. TERM— | |
| { Bookkeeping, | Ancient History, 5, |
| { Commercial Arithmetic, 5, | Literature, 5. |
| Cæsar, 5, | |
| III. TERM—Physical Geography, 5, | Literature, 5, |
| Cæsar, 5, | Ancient History, 5. |

THIRD FORM.

- | | |
|-----------------------|----------------|
| I. TERM—Algebra, 5, | German, 5, |
| Cæsar, 5, | Elocution, 5. |
| II. TERM—Algebra, 5, | German, 5, |
| Cæsar, 5, | Literature, 5. |
| III. TERM—Algebra, 5, | German, 5, |
| Botany, 5, | Literature, 5. |

FOURTH FORM.

- | | |
|--------------------------|--------------------------|
| I. TERM—Geometry, 5, | History of England, 5, |
| <i>Physiology</i> , 5, | German, 5, |
| or <i>Chemistry</i> , 5, | or French, 5. |
| II. TERM—Geometry, 5, | Civics, 5. |
| Astronomy, 5, | German, 5, or French, 5. |
| III. TERM—Physics, 5, | German, 5, or French, 5, |
| Geology, 5, | Solid Geometry, 5. |

METHODS OF INSTRUCTION.

The Preparatory Curriculum naturally falls into seven principal lines of study, viz.: English, German, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary, and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities, and methods of the various departments are explained below.

I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. This work is done in the First Form.

In the Second Form a review in the principles of English Grammar is given, and a practical application of the same, together with rhetorical structure in paragraph writing and composition.

In the Third Form the first term is devoted to the study of Elocution, and the remaining two terms take up the study of Literature. The reading and study of the masterpieces of English and American Literature are maintained by means of daily recitations. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful reading of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form and structure" of other selections.

II. THE LATIN LANGUAGE.

The Course includes four and two thirds years of Latin, embracing four books of Cæsar, six orations of Cicero, six books of Vergil, and twelve hundred lines of Ovid, besides a complete Course in Grammar and Composition.

Careful drill is given in the declensions and conjugations, in the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translations into idiomatic English. Attention is given to the important personal, historical, and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, and art of Rome. He is taught to investigate the allegorical, archæological, and mythical allusions of the *Æneid*, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

III. THE GREEK LANGUAGE.

The first two terms of the Third Form are spent in a thorough study of White's First Greek Book. In the third term Xenophon's *Anabasis* is read, and special attention is given to acquiring a vocabulary and to the forms and syntax of nouns, pronouns, and adjectives. In the first half of the Fourth Form the reading of Xenophon is continued. During the last half year Homer's *Iliad* is read, and the difference between the Homeric and Attic Forms is noted. Throughout the course, Prose Composition is frequently required for the purpose of acquiring a vocabulary and a knowledge of syntax. The course includes four books of the *Anabasis*, four books of the *Iliad*, besides the Grammar and Prose Composition.

IV. THE GERMAN LANGUAGE.

One year's study of German is required of members of the Third and Fourth Forms of the Scientific Course. The same work may be elected by the members of the corresponding form of the Latin Scientific Course instead of the science subjects of that course. In the study of German, the aim is a thorough acquaintance with declensions and conjugations; facility of pronunciation; quick recognition of words both by the eye and the ear; as extensive a vocabulary as the time will allow; and by constant practice the laying of a foundation for reading, writing, and speaking the language.

V. HISTORY.

The course in History includes a survey of the History of the United States, of England, of Greece, and of Rome. The aim is to acquaint the student with the life, the genius, the institutions, and

the achievements of the respective peoples, and their part in the wider history of mankind.

Additional courses are offered in Ancient, Mediæval, and Modern History, and extra courses in the historical readings required of applicants for examination and registration as students at law by the Supreme Court of Pennsylvania.

Civil Government is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are presented and discussed.

VI. MATHEMATICS.

Arithmetic. To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for college or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

Algebra. The Third Form course extends through one year, and includes a knowledge of the fundamental principles, Factoring, Divisors, and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals, and Quadratic Equations. Daily blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

The First Form takes up Algebra for the first two terms. The work is intended to give the pupils a knowledge of algebraic principles and to assist them in their Arithmetic. The third term is devoted to Concrete Geometry and Mechanical Drawing.

Plane and Solid Geometry. The instruction consists in daily recitations for three terms on the Theorems and Problems given in the text-book, with original demonstrations of the same propositions by the students from hints and figures given in the classroom. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

Bookkeeping. A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Bookkeeping. Careful attention is given

to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications, as an elective, by properly qualified students.

VII. SCIENCE.

Physical Geography lays a foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The subject is illustrated by drawings, photographs, colored and relief maps, and specimens from the Museum.

Botany is taught by text-books, field exercise, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin, and preparations are used in class.

Physics. The student is grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiments, review, and repeated examination. The truth of principles is proved, except where the demonstration involves mathematics of the higher course in College.

Astronomy. Descriptive Astronomy discusses the earth's relations to the solar system, the masses, motions, and orbits of each member of it; the causes and consequences of the motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the

student is afforded privileges of observation in the College Observatory.

Geology. The student masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked, to produce changes are considered.

VIII. ORATORY.

Class Exercises. Members of the Fourth Form prepare and deliver one original oration each term. All other students have regular exercises in Composition and Declamation throughout the year. Public exercises are held before the faculty and students of the Academy. Visitors are cordially invited to these exercises.

In addition to the private rehearsals for the work above indicated, students in the Third Form receive daily instruction in elocution during the fall term. The course includes careful drill in the Elementary sounds, in Articulation, and in expression; in Analytical Reading, including the Bible and Hymns; and the reading of Shakspeare.

IX. SPECIAL BRANCHES.

Bible Study. The study of the Bible is pursued as a regular weekly recitation throughout the First, Second, and Third Forms, in all Courses of study. A scheme of study is arranged at the beginning of each year. It is intended that the successive schemes for the various years of the course will cover the Life of Christ, the historical portions of the Old Testament foreshadowing the Christ, and the history of the Apostolic Church.

The Study of Music may be pursued by Academic students under the instruction of Professor E. Aviragnet and his assistants, of the School of Music.

Drawing. All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing and Penmanship without extra charge. Special individual instruction in Drawing in the Art Studio is afforded at twenty-four dollars per annum.

X. HEALTH AND PHYSICAL CULTURE.

The Tustin Gymnasium affords opportunity for physical exercise. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The Athletic Association of the Academy has been formed to encourage and regulate athletic sports. The Association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

PUBLIC EXHIBITIONS.

THIRD FORM.

The Public Exhibition in Declamation by the Third Form will take place on Saturday evening, April 11, 1908, in Bucknell Hall.

FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition in Oratory of the Fourth Form, on June 15, 1908.

Diplomas and Certificates will be conferred Tuesday afternoon, June 16, 1908.

GENERAL INFORMATION.

ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading Room. The Academy is designed to fit pupils thoroughly for College and Technical Schools, and to lay broad and solid foundations for all subsequent scholarly culture and for the successful conduct of everyday affairs.

GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study.

I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.

2. The government of the Academy, subject to such control, rests with the Principal of the Academy.

3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions, and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.

4. Each Instructor shall have charge of his classes with reference to attendance upon recitations. He shall report to the Principal cases of non-attendance, and inexcusable failure on the part of students to prepare regular lessons or special work assigned.

II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of any violation of the regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose.

2. Every violation of the laws and prudential regulations of the Academy will subject the offender to a penalty of demerits, graded according to the flagrancy and frequency of the offense.

3. When the sum of a pupil's demerits equals ten it shall be the Principal's duty to notify the parent or guardian of the offender, specifying the offense; for every additional ten demerits like notification shall be made.

4. Additional disciplinary penalties in the form of reprimand, "campus," suspension, dismissal, or expulsion, according to the necessities of the case, will follow repeated violations.

BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of the Catalogue.

The Main Building contains, besides its accommodations for other school and boarding purposes, rooms for students. The rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high. They are subdivided into a study room twelve feet by ten feet, and a sleeping room nine feet square.

The East Hall contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings, and contain two commodious closets and two single wire mattress beds with all necessary furniture.

ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors, and the Matron live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding house. So far as may be warranted by the deportment of the students, there will be absent from the home life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preference of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing Encyclopedias, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Rooms are provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Ancient Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The apparatus of the College also is accessible to the classes for purposes of experiment and illustration.

The College Library, numbering thirty thousand volumes, is available for all students.

SCHOOLROOM.

In order to insure favorable conditions of study, the Academy maintains a commodious and well-appointed schoolroom. The school life centers in this room. Here, except when engaged in recitations, day students prepare their work, unless excused for a

part of the time, for good cause; here, also, all the younger students of the lower forms prepare for their recitations. Advanced students and those of maturer years, who have acquired habits of independent study, are granted the privilege of preparing part of their work in their rooms, provided that they maintain high scholarship and excellent deportment.

HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only two hours. This time should be sacred to its purpose. Parents of day pupils are requested to coöperate with the school in securing attention to evening study hours, and to avoid furnishing occasions or granting excuses for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations, see the Calendar of the University.

STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings range from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose grade in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without examination.

All students who complete in a satisfactory manner any of the Courses of Study, and who have sustained irreproachable character during their school residence, shall be entitled to the diploma of the Academy.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

PRIZES.

THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize for excellence in Composition.

This prize for 1907 was awarded to Earl Gladstone Watkins and Evan Welling Thomas.

THE REV. DAVID PORTER LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize to that member of the Third Form who shall excel in the Annual Exhibition of the Third Form in Declamation.

This prize for 1907 was awarded to Robert Ray McCombs.

THE WILLIAM E. MARTIN PRIZE.

Principal Thomas offers an annual prize, named in honor of Professor William E. Martin, to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1907 was awarded to George W. Lawrence.

LITERARY SOCIETY.

This is an organization of students for mutual improvement in literary and oratorical exercises. It has a large and convenient hall in the Main Academy Building, where meetings are held on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises, which all students are required to attend. Devotional exercises are also held every evening, just before the evening study hour. All academic students residing on the University campus are required to attend these exercises.

Regular attendance at Sunday school and upon public worship at some church on Sunday morning, is required; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Christian Endeavor or other like Young People's Society, and the mid-week prayer-meetings, while voluntary, is strongly urged upon students.

Parents or guardians are requested to indicate to the Principal the church which they desire their sons or wards to attend.

The Academy students maintain a branch of the Young Men's Christian Association, which hold a weekly prayer-meeting on Tuesday evenings, and song and praise meeting on Sunday evenings.

EXPENSES OF ACADEMY STUDENTS.

EAST HALL.

	Per annum.
Tuition, Board, Furnished Room, Heat, Light, Care, Washing and Incidentals.....	\$260.00

MAIN HALL.

Tuition, Board, Furnished Room, Heat, Washing, and Incidentals	\$250.00
Tuition and Incidentals to day pupils.....	75.00

A student engaging a room is required to make a deposit of ten dollars. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

All charges are payable to the Registrar of the University in advance, at the beginning of each term.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than twelve pieces per week.

Students who remain in the Academy during the holiday or spring vacation will be charged at the rate of \$5.00 per week. Table boarders will be charged the regular rate, \$3.50 per week.

Free scholarships covering tuition are provided in all the departments of the University for the children of Ministers of the Gospel *in actual service*. Tuition is rated at \$36 a year.

The expenses for Music and Printing for Exhibition and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, or the Principal, Benjamin F. Thomas, A. M.

THE INSTITUTE.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

THOMAS ALPHEUS EDWARDS, A. M.,
DEAN OF THE DEPARTMENT FOR WOMEN,
AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR OF THE SCHOOL OF MUSIC.

EMMA LOUISE BUSH, A. B., PRECEPTRESS,
TEACHER OF GERMAN.

GRACE SLIFER, A. M.,
TEACHER OF LATIN AND ENGLISH.

JENNIE MAY WOOD, A. M.,
TEACHER OF ENGLISH AND HISTORY.

EDITH SCHILLINGER,
TEACHER OF ELOCUTION AND GYMNASTICS.

EDITH J. METCALF,
TEACHER OF INSTRUMENTAL MUSIC.

RUTH ANGELENE BOTTORF,
TEACHER OF INSTRUMENTAL MUSIC.

MARY ELIZABETH BOYNTON,
TEACHER OF INSTRUMENTAL MUSIC.

WINIFRED GRACE ISAAC,
TEACHER OF VOCAL MUSIC.

EMMA GRIER GEARHART,
TEACHER OF VOCAL MUSIC.

FLORENCE CHRIST CALLAGHAN,
TEACHER OF ART.

MARTIN LINNAEUS DRUM, PH. B.,
TEACHER OF MATHEMATICS.

PHARES GROSS HESS, A. B.,
TEACHER OF SCIENCE.

HENRY TAYLOR MEYER, A. B.,
TEACHER OF ENGLISH.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR.

DIRECTORY OF THE ALUMNÆ

OFFICERS OF THE ALUMNÆ ASSOCIATION.

President, MRS. MARY BROWN MARTIN.

Vice-President, MISS GRACE SLIFER.

Recording Secretary, MISS MARY HIGGINS.

Corresponding Secretary, MISS SARAH JUDD, Lewisburg.

Treasurer, MISS BELLE BARTOL.

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THE OFFICERS OF THE ASSOCIATION, AND MRS. KATHERINE B. LARISON, AND MRS. EVALINE STANTON GUNDY.

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Recording Secretary, MISS LETITIA MATHEWS.

Corresponding Secretary, MRS. JOHN W. LYNCH,
Llanerch, Pa.

Assistant Corresponding Secretary, MISS RUTH HAMMITT.

Treasurer, MRS. DEWEY A. COBB,
648 N. Fifty-sixth Street, Philadelphia.

The Dean of the Department for Women will esteem it a favor if any graduate who changes her residence will give notice of her new address. He will also be grateful for any information that will assist in making the directory of the graduates and former students complete.

GRADUATES, CLASS OF 1907.

NAME.	RESIDENCE.
HARRIET KREMER BOWER,	Lewisburg
MARY MATILDA BROWN,	Lewisburg
ELIZABETH LEONE BROWN,	Allegheny
SADIE EMERSON BURGESS,	Sadieville, Ky.
RUTH YOUNG CHAPIN,	Milton
FRANCES GROFF,	Lewisburg
HELEN HARE,	Lewisburg
EMILY HEATON,	Milton
MARY HEATON,	Milton
ADA ELLEN MOORE,	St. Clair, Mo.
MILDRED JESSIE SHAFFER,	Lewisburg

GRADUATE STUDENTS.

HARRIET KREMER BOWER,	South Sixth Street
<i>Lewisburg.</i>	
MARY MATILDA BROWN,	Lewisburg
<i>Lewisburg.</i>	
FRANCES LLOYD GROFF,	Lewisburg
<i>Lewisburg.</i>	
HELEN HARE,	University Avenue
<i>Lewisburg.</i>	

THE SENIOR CLASS.

HAZEL LIPPINCOTT BODINE,	Women's College
<i>Merchantville, N. J.</i>	
ALMA MARGARET DEITRICH,	Women's College
<i>Madisonburg.</i>	
ANNA JOSEPHINE DERR,	Market Street
<i>Lewisburg.</i>	
HAZEL ETTA GALLOWAY,	Lewisburg
<i>Lewisburg.</i>	
CHARLOTTE MAY HAWK,	Women's College
<i>Tower City.</i>	
MARY ANNA KLINE,	Sunbury
<i>Sunbury.</i>	
LAURA ELLEN MCGANN,	North Third Street
<i>Lewisburg.</i>	

NAME.	RESIDENCE.	ROOM.
EDNA ANNE MILLER,	<i>Montrose.</i>	Women's College
VERNA GRACE NOLL,	<i>Lewisburg.</i>	North Water Street
CAROL FRANCES SPRATT,	<i>Lewisburg.</i>	North Third Street
MARY ALTA STAPLETON,	<i>Lewisburg.</i>	West Market Street
HELEN ELIZABETH STURR,	<i>Elmer, N. J.</i>	Women's College
MARGUERITE WATROUS,	<i>New York City.</i>	North Third Street
JESSIE THERESA YOUNG,	<i>Lewisburg.</i>	South Seventh Street

THE FOURTH YEAR CLASS.

EMMA MINCH CLEMENT,	<i>Mt. Ephraim, N. J.</i>	Women's College
BESSIE NEWTON CONDUCT,	<i>Trenton, N. J.</i>	East Market Street
EUDORA REGINA HAMLER,	<i>Lewisburg.</i>	West Market Street
MYRA ALVERNA HIGH,	<i>White Deer.</i>	White Deer
ERNESTINE SUSANNA HYATT,	<i>Lewisburg.</i>	North First Street
OLIVE MARIE LONG,	<i>Mill Hall.</i>	Women's College
ELIZABETH BUDD MULFORD,	<i>Bridgeton, N. J.</i>	Women's College
BERTHA REED PFLEEGOR,	<i>Montandon.</i>	Montandon
LUCILLE SAVIDGE,	<i>Sunbury.</i>	Sunbury
ANNETTA AMELIA STAHL,	<i>Lewisburg.</i>	West Market Street

THE THIRD YEAR CLASS.

HELEN KING BARTOL,	<i>Lewisburg.</i>	University Avenue
LOIS MAY BROWN,	<i>Lewisburg.</i>	Lewisburg

NAME.	RESIDENCE.	ROOM.
HANNAH BARTON BUBB,	<i>Lewisburg.</i>	University Avenue
ELLEN WOLFE FOCHT,	<i>Lewisburg.</i>	South Second Street
BLANCHE HENDERSHOT,	<i>Crafton.</i>	Women's College
CAROL COOKE MEESER,	<i>Ridley Park.</i>	Women's College
MARIA COOKE SPYKER,	<i>Lewisburg.</i>	East Market Street
DORIS ELIZABETH WHITNEY,	<i>Buffalo, N. Y.</i>	Women's College

THE SECOND YEAR CLASS.

HELEN MAY BROWN,	<i>Lewisburg.</i>	Lewisburg
BERTHA BEULAH BURNS,	<i>Winfield.</i>	Winfield
MIRIAM RUTH HOFFA,	<i>Lewisburg.</i>	North First Street
MARY HULLEY,	<i>Lewisburg.</i>	South Fourth Street
MARY ANNA KUNKLE,	<i>Lewisburg.</i>	Lewisburg
RUTH BARBARA MOHN,	<i>Lewisburg.</i>	South Third Street
DOROTHY WOLFE,	<i>Lewisburg.</i>	St. George Street
ALMA VIOLA WOLFE,	<i>Harrisburg.</i>	St. George Street

THE FIRST YEAR CLASS.

HELEN CATHERINE ALLEN,	<i>Lewisburg.</i>	North Water Street
XAVA OLIVE BROWN,	<i>Lewisburg.</i>	North Third Street
MARGARET CHRISTINE GRETZINGER,	<i>Lewisburg.</i>	South Sixth Street
MARGARET MCCLURE,	<i>Lewisburg.</i>	University Avenue

NAME.	RESIDENCE.	ROOM.
BERTHA MAY NOLL,	<i>Lewisburg.</i>	North Water Street
ELEANOR EMMA PROSS,	<i>Lewisburg.</i>	Market Street
RUTH ROYAL,	<i>Camden, N. J.</i>	Women's College
ISABELLE BOWMAN WOLFE,	<i>Lewisburg.</i>	North Third Street

PURSUING SELECT STUDIES.

BERTHA BROWN,	<i>Lewisburg.</i>	Lewisburg
RUBY LEONA BUFFINGTON,	<i>Brookville.</i>	Women's College
HARRIET C. BURROWS,	<i>Sunbury,</i>	Sunbury
LAURA E. CARR,	<i>Camden.</i>	Women's College
CLARA HARRIET COLLINS,	<i>Scottdale.</i>	Women's College
FRANCES THERESA CRONIN,	<i>Plymouth.</i>	Women's College
MARY ELIZABETH DAVISON,	<i>Danville.</i>	Women's College
MARY EDNA DEITRICH,	<i>Madisonburg.</i>	Women's College
NELLE DENNISON,	<i>Coal Glen.</i>	Women's College
GENEVIEVE ODESSA DENT,	<i>Dent's Run.</i>	Women's College
PEARL R. DEYOE,	<i>New Haven.</i>	Women's College
ANNA KALER DREISBACH,	<i>Lewisburg.</i>	South Third Street
MARGUERITE DUNCAN,	<i>Lewisburg.</i>	South Second Street
RUTH ANNA FAIRCHILD,	<i>Germantown.</i>	Women's College
MARGARET GRAY,	<i>Curwensville.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
HELEN FOSTER HALFPENNY,	<i>Niles, O.</i>	South Water Street
CHRISTINE HARRIS,	<i>Salem, N. J.</i>	Women's College
MARY HENDERSON,	<i>Uniontown.</i>	Women's College
BERTHA GERTRUDE HENSHEY,	<i>Brookville.</i>	Women's College
ADALENE BING HOLLAND,	<i>DuBois.</i>	Women's College
JESSIE HUGUS,	<i>Latrobe.</i>	Women's College
MARIE HUMPHREY,	<i>Brookville.</i>	Women's College
MARTHA KEARNEY,	<i>Brockwayville.</i>	Women's College
HARRIET YARGER KEISER,	<i>Lewisburg.</i>	Lewisburg
ERMA KLEINFELTER,	<i>North Bend.</i>	Women's College
ELENA MOESCHLIN,	<i>Sunbury.</i>	Sunbury
ELEANOR BELLE NIXON,	<i>Fairchance.</i>	Women's College
MARY LENA OTTO,	<i>Sunbury.</i>	Sunbury
CLARA J. PAWLING,	<i>West Milton.</i>	West Milton
JESSIE M. PURSELL,	<i>Muncy.</i>	Muncy
MAUD ELEANOR RINGLER,	<i>Mifflinburg.</i>	Mifflinburg
ETHEL MILDRED ROYAL,	<i>Camden, N. J.</i>	Women's College
MARIA RUTLER,	<i>Sunbury.</i>	Sunbury
MARTHA SHREVE,	<i>Erie.</i>	Women's College
ANNA ESTHER SHULTZ,	<i>Sunbury.</i>	Sunbury
LAURA M. SHULTZ,	<i>Sunbury.</i>	Sunbury

NAME.	RESIDENCE.	ROOM.
MARY E. SLEAR,	<i>Sunbury.</i>	Sunbury
JULIA IRENE SMEED,	<i>Lewisburg.</i>	Lewisburg
S. ELLA SMITH,	<i>Reading.</i>	Women's College
MARY ELLEN STINE,	<i>Sunbury.</i>	Women's College
ETHEL ELIZABETH STRASSER,	<i>Muncy.</i>	Women's College
LOLA MIRIAM ULRICH,	<i>Penn Hall.</i>	Women's College
SARAH EDWARDS UNRUH,	<i>Fox Chase.</i>	Women's College
MARY ELLEN WALLER,	<i>Baltimore, Md.</i>	South Sixth Street
HELEN L. WAY,	<i>South Seaville, N. J.</i>	Women's College
HELENA WAY,	<i>Cape May C. H., N. J.</i>	Women's College
ELIZABETH R. WEDDLE,	<i>Rilton.</i>	Women's College
HARRIET LAVINIA WILSON,	<i>Frankford.</i>	Women's College

SUMMARY.

Graduate Students	4
Senior Class	14
Fourth Year Class.....	10
Third Year Class.....	8
Second Year Class.....	8
First Year Class.....	8
Pursuing Select Studies.....	48
Students in Art and Elocution not otherwise counted.....	6
Total	106

COURSES OF STUDY.

The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if upon examination they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

Credentials from Graded Schools are accepted in the studies of the First and Second Years.

Credentials are accepted for the Third and Fourth Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

I. THE LITERARY COURSE.

The Literary Course embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra with Trigonometry and Analytical Geometry as electives; in LATIN, four years; in GERMAN, two years, and a third year elective with FRENCH; in FRENCH, one year; and in ITALIAN and SPANISH, an optional course; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory, and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology, Ethics, and History of Art.

Special attention is given to History and Literature, to the former of which six and to the latter of which three terms are devoted, besides the reading of English and American authors required for admission to College.

Graduates of the Institute in the Literary Course, upon the completion of eighteen courses of additional work in the College of Liberal Arts, may receive the degree of Bachelor of Letters.

II. THE CLASSICAL COURSE.

The Classical Course embraces, in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry and Analytical Geometry; in LATIN, Grammar and Composi-

tion, Cæsar, Vergil, Cicero's Orations, Ovid, Cicero *de Senectute et de Amicitia*, Livy, and Velleius, in all, five years; in GREEK, Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Plato's Apology, Homer's Odyssey, and the Greek Testament, in all, three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical course except that scientific subjects are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

Students in the fifth year Classical or Latin Scientific course recite to the professors in the College.

Students who do not wish to pursue a course of study may elect such subjects in connection with the recitations of the regular classes as they may be qualified to pursue.

AGE REQUIREMENT FOR ADMISSION.

The required age for admission to the first-year class or to pursue select studies is twelve years, and a proportionate increase of age for admission to advanced classes.

CURRICULA.

Arabic numerals indicate the number of recitations a week
in each subject.

I. THE LITERARY COURSE.

FIRST YEAR.

- | | |
|----------------------------------------------------|--------------------------|
| I. TERM—Algebra, 5,
Latin, 5,
History, 5, | English, 4,
Bible, 1. |
| II. TERM—Algebra, 5,
Latin, 5,
Drawing, 5, | English, 4,
Bible, 1. |
| III. TERM—Geometry, 5,
Latin, 5,
History, 5, | English, 4,
Bible, 1. |

SECOND YEAR.

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| I. TERM—Higher Arithmetic, 5,
Cæsar, Introduction, 5,
Ancient History, 5, | Rhetoric, 4,
Bible, 1. |
| II. TERM—
<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> { <div style="display: inline-block; vertical-align: middle;"> Bookkeeping,
 Commercial Arithmetic, 5,
 Cæsar, 5, </div> </div> | Ancient History, 5,
Literature, 4,
Bible, 1. |
| III. TERM—Physical Geography, 5,
Cæsar, 5,
Ancient History, 5, | Literature, 4,
Bible, 1. |

THIRD YEAR.

- | | |
|------------------------------------------------------------------------------------|-----------------------------|
| I. TERM—Algebra, 5,
Cæsar, 5,
German, 5, <i>or</i>
History of England, 5, | Elocution, 4,
Bible, 1. |
| II. TERM—Algebra, 5,
Cicero, 5,
German, 5, <i>or</i>
Civics, 5, | Literature, 4,
Bible, 1. |
| III. TERM—Algebra, 5,
Cicero, 5,
German, 5, <i>or</i>
Botany, 5, | Literature, 4,
Bible, 1. |

FOURTH YEAR.

- | | |
|--------------------------------------------------------------------|-------------------------------------------------------------------|
| I. TERM—Geometry, 5,
Vergil, 5,
Cicero, 5, | German, 5, <i>or</i>
Physiology, 5, <i>or</i>
Chemistry, 5. |
| II. TERM—Geometry, 5,
Vergil, 5,
{ Cicero, }
{ Ovid, } 5, | German, 5, <i>or</i>
Astronomy, 5. |
| III. TERM—Physics, 5,
Vergil, 5, | German, 5, <i>or</i>
Geology, 5. |

SENIOR YEAR.

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| I. TERM—Psychology, 5,
English Literature, 5,
French, 5, <i>or</i>
German, 5, <i>or</i>
Solid Geometry, 5, | Bible, 1,
Composition, 1,
Elocution, 1. |
| II. TERM—English Literature, 5,
History of Art, 5,
French, 5, <i>or</i>
German, 5, <i>or</i>
Algebra, 5, | Bible, 1,
Composition, 1,
Elocution, 1,
Physical Culture, 5. |


III. TERM—Ethics,	Bible, 1,
American Literature,	Composition, 1,
French, <i>or</i>	Elocution, 1.
German, <i>or</i>	
Trigonometry,	

II. THE CLASSICAL COURSE.

FIRST YEAR.

I. TERM—Algebra, 5,	English, 4,
Latin, 5,	Bible, 1.
History, 5,	
II. TERM—Algebra, 5,	English, 4,
Latin, 5,	Bible, 1.
Drawing, 5,	
III. TERM—Geometry, 5,	English, 4,
Latin, 5,	Bible, 1.
History, 5,	

SECOND YEAR.

I. TERM—Higher Arithmetic, 5,	Rhetoric, 4,
Cæsar, Introduction, 5,	Bible, 1.
Ancient History, 5,	
II. TERM—	
 { Bookkeeping,	Ancient History, 5,
Commercial Arithmetic, 5,	Literature, 4,
Cæsar, 5,	Bible, 1.
III. TERM—Physical Geography, 5,	Literature, 4,
Cæsar, 5,	Bible, 1.
Ancient History, 5,	

THIRD YEAR.

I. TERM—Algebra, 5,	Elocution, 4,
Cæsar, 5,	Bible, 1.
Greek, 5,	

- | | |
|------------------------------------------------------------|-----------------------------|
| II. TERM—Algebra, 5,
Cicero, 5,
Greek, 5, | Literature, 4,
Bible, 1. |
| III. TERM—Algebra, 5,
Cicero, 5,
Greek, Anabasis, 5, | Literature, 4,
Bible, 1. |

FOURTH YEAR.

- | | |
|-------------------------------------|------------------------------------------|
| I. TERM—Geometry, 5,
Vergil, 5, | Cicero, 5,
Greek, Anabasis, 5. |
| II. TERM—Geometry, 5,
Vergil, 5, | { Cicero, } 5,
{ Ovid, }
Iliad, 5. |
| III. TERM—Physics, 5,
Vergil, 5, | Iliad, 5,
Anabasis, 5. |

SENIOR YEAR.

- | | |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| I. TERM—Solid Geometry, 5,
Cicero de Senectute, 5,
{ Odyssey,
{ Greek Prose Compositions, 5, | Bible, 1,
Composition, 1,
Elocution, 1. |
| II. TERM—Algebra, 5,
Livy, 5,
{ Lysias,
{ Greek Testament, 5, | Bible, 1,
Composition, 1,
Elocution, 1,
Physical Culture, 5. |
| III. TERM—Trigonometry, 5,
Velleius and Pliny, 5,
{ Plato,
{ Greek Testament, 5, | Bible, 1,
Composition, 1,
Elocution, 1. |

III. THE LATIN SCIENTIFIC COURSE.**FIRST YEAR.**

- | | |
|-------------------------------------------------|--------------------------|
| I. TERM—Algebra, 5,
Latin, 5,
History, 5, | English, 4,
Bible, 1. |
|-------------------------------------------------|--------------------------|

- II. TERM—Algebra, 5, English, 4,
 Latin, 5, Bible, 1.
 Drawing, 5,
- III. TERM—Geometry, 5, English, 4,
 Latin, 5, Bible, 1.
 History, 5,

SECOND YEAR.

- I. TERM—Higher Arithmetic, 5, Rhetoric, 4,
 Cæsar, Introduction, 5, Bible, 1.
 Ancient History, 5,
- II. TERM—
 { Bookkeeping, Ancient History, 5,
 { Commercial Arithmetic, 5, Literature, 4,
 Cæsar, 5, Bible, 1.
- III. TERM—Physical Geography, 5, Literature, 4,
 Cæsar, 5, Bible, 1.
 Ancient History, 5,

THIRD YEAR.

- I. TERM—Algebra, 5, Elocution, 4,
 Cæsar, 5, Bible, 1.
 German, 5, *or*
 History of England, 5,
- II. TERM—Algebra, 5, Literature, 4,
 Cicero, 5, Bible, 1.
 German, 5, *or*
 Civics, 5,
- III. TERM—Algebra, 5, Literature, 4,
 Cicero, 5, Bible, 1.
 German, 5, *or*
 Botany, 5,

FOURTH YEAR.

- I. TERM—Geometry, 5, German, 5, *or*
 Vergil, 5, Physiology, 5, *or*
 Cicero, 5, Chemistry, 5.

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|-----------------------|-----------------------|
| II. TERM—Geometry, 5, | German, 5, <i>or</i> |
| Vergil, 5, | Astronomy, 5. |
| { Cicero, } 5, | |
| { Ovid, } | |
| III. TERM—Physics, 5, | German, 5, <i>or</i> |
| Vergil, 5, | Geology, 5, <i>or</i> |
| | Solid Geometry, 5. |

SENIOR YEAR.

- | | |
|----------------------------|----------------------|
| I. TERM—Solid Geometry, 5, | Bible, 1, |
| Cicero de Senectute, 5, | Composition, 1, |
| German, 5, | Elocution, 1. |
| II. TERM—Algebra, 5, | Bible, 1, |
| Livy, 5, | Composition, 1, |
| German, 5, | Elocution, 1, |
| | Physical Culture, 5. |
| III. TERM—Trigonometry, 5, | Bible, 1, |
| Velleius and Pliny, 5, | Composition, 1, |
| French, 5, | Elocution, 1. |

METHODS OF INSTRUCTION.

I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the Course in Ethics is to make the instruction as practical as possible. Theses on problems in Ethics are required of each student taking the subject, in addition to recitations from text-books.

II. LITERATURE AND ART.

LITERATURE is taught by topical outlines, the elaboration of which depends upon a sympathetic study of the masterpieces in connection with the lives and times of the writers. The subject is so presented that a vital experience results rather than an empty form of knowledge. The object of the course is to cultivate and ennoble the emotions, to stimulate the imagination, and to reinforce the will with strong and exalted motives.

THE HISTORY OF ART is offered in the Senior Year, Literary Course. The aim of the course is to give a general knowledge of the development of art and lead to an acquaintance with individual artists and their work. Some attention is given to the theories concerning the origin of the art-impulse itself, and the law of the mental evolution which has governed the history of art.

III. HISTORY.

History. Six terms are devoted to this study. The course embraces General History, the History of the United States, of England, of Greece, and of Rome. Efforts are made to show the learner that History is not mere facts in chronological order, but a record of the development of civilization.

Civil Government. The origin and growth of our institutions, the functions of the various departments of the National, State,

and local governments, the political history of the people, the interpretation and construction of the Constitution, are discussed.

IV. THE ENGLISH LANGUAGE.

English Grammar. The aim is to train the pupils to speak and write the English language with accuracy and force.

Rhetoric is taught as a practical aid to English Composition. Daily exercises in composition are required.

English Composition is required throughout the course. Classes in Composition meet weekly for general criticism and the assignment of work. One essay is required from each student monthly, and an exercise in rapid and concise writing is required weekly.

V. THE LATIN LANGUAGE.

Paradigms of Declension and Conjugation with the Principles of Syntax, are introduced gradually, after many illustrations. English sentences are translated into Latin, readiness in Latin Composition and a correct style being thus acquired.

The following courses are offered: 1. Latin Grammar and Lessons; 2. Eutropius; 3. Cæsar, Gallic War; 4. Vergil, *Æneid*; 5. Cicero, Orations; 6. Ovid; 7. Cicero, *de Senectute*, and Livy; 8. Livy, Books XXI and XXII; 9. Velleius and Pliny.

VI. THE GREEK LANGUAGE.

The first half of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's *Anabasis*. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh her knowledge of Attic Greek, and may not find her transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course: 1. Greek Lessons; 2. Xenophon's *Anabasis*; 3.

Homer's Iliad; 4. Lysias' Orations; 5. Homer's Odyssey; 6. Plato's Apology; 7. Greek New Testament.

VII. MODERN LANGUAGE.

1. French, Italian, and Spanish. The modern languages are taught by comparing them with the mother tongue of the pupil, if there be any relation between them. If there is none, they are compared with the Latin and Greek languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from Whitney's Practical French.

As far as practical only French is spoken in the classroom. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the modern languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

2. German. In the study of German the aim is to get knowledge of the language in an all-round way. This is accomplished not alone through the study of grammar and the translation of German into English, but by daily practice in conversation, the committing to memory of poems and idioms, and through an acquaintance with biography and the different phases of German life. As little English as practicable is used in the classroom. Throughout the course there is constant sight reading, translation at hearing, and translation from English into German.

The reading of the second year includes the best German authors studied in connection with Keller's History of German Literature.

VIII. MATHEMATICS.

Arithmetic. Two objects are considered in teaching the subject; first, to give the student a practical knowledge of all ordinary business problems and calculations; second, to develop her ability to think logically and rapidly. The memorizing of

rules and mechanical processes is not required, but independent thought, logical analysis and neatness, clearness and accuracy in all written work are demanded. A drill in Mental Arithmetic is combined with the required work of the text-book.

Elements of Algebra. Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the applications of arithmetical processes to symbols of general value is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variations, and Series.

Geometry. The course includes Plane and Solid Geometry. Besides the demonstrations of Theorems given in the text-book, original demonstrations and the solution of problems are required.

Higher Algebra. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions, and the Theory of Equations.

Trigonometry. The course includes Plane and Spherical Trigonometry. Time is given to the numerical illustrations of principles for the purpose of making sure that the meaning and use of formulæ demonstrated and learned are thoroughly understood.

Analytical Geometry. The student is taught the elementary properties of the right line and the conic sections. The course is intended to give a clear conception of the methods of Cartesian Analysis, rather than an extensive knowledge of its results.

IX. SCIENCE.

Physics. The student is thoroughly grounded in the elements of mechanics and physics. The historical beginnings of each subject, and subsequent developments, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics. The apparatus of the College is available for class use.

Astronomy. Descriptive Astronomy discusses the earth's relation to the solar system; the masses, motions, and orbits of each member; the causes and consequences of the motions of the earth; general boundaries of the constellation of the Zodiac and Northern

Heavens; the accepted theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Physical Geography lays a broad foundation for subsequent work in all sciences. Special attention is given to the physical features of the United States. Drawings, photographs, colored and relief maps, and specimens from the Museum and field work aid to make the subject clear.

Geology. The student is required to master the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

Botany is taught by text-book and field work. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. Lectures explaining special forms of vegetable growth, and the flora of this country, complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. The subject is illustrated by the use of a manikin, charts, and preparations.

Descriptive Chemistry is taught by text-books, lectures, and experiments. The object of the course is to give the student a general knowledge of the common elements, their sources, uses, compounds, and behavior toward other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place.

PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium is furnished with Indian clubs, dumb bells, wands, rings, hoops, guns, wall pulleys, parallel bars, etc., and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to develop grace and strength. The Institute Campus of six acres furnishes facilities for exercises. Lawn Tennis and other outdoor games are encouraged, and exercise in the open air is required.

ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music, and refined surroundings, as well as direct instruction in Literature, Music, and Art. Special instruction in Music and Art is given in the schools devoted to those subjects.

SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music, and Art and receptions in charge of the pupils add variety to student life. No effort is spared to give the pupils the advantages of a cultured home. The purpose is to develop the social life of the Institution within itself. Students are not permitted, during term-time, to visit in neighboring towns. The number of social functions during the term is limited, and the consent of the Dean must be obtained for each function at least one month before it is to occur.

RELIGIOUS TRAINING.

The Institute is distinctly Christian in its influence. Morning and evening Chapel in the Hall of the Institute building is attended by all students in the Institute courses, special students, and women pursuing studies in the School of Music. College women living in the Institute attend evening Chapel.

Attendance upon Sabbath school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several classes for Scripture study.

The Young Women's Christian Association, a voluntary society open to the officers and students of the Institute, meets weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes, and College Settlement work are in charge of this Association.

SPECIAL BRANCHES.

1. Italian and Spanish may be taken up as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

2. Bible instruction is given once a week throughout the entire course.

3. Essays are required of all students each month, and themes each week.

4. Two declamations are required of each student during each term.

5. Exercises in either Elocution or Reading are required once a week of all classes.

PUBLIC EXERCISES.

THE EXERCISES OF THE GRADUATING CLASS.

The Commencement Exercises of the Institute are held in the College Commencement Hall on Tuesday afternoon of Commencement week.

THE EXERCISES OF THE FOURTH YEAR CLASS.

The exercises of the Fourth Year Class, a combined musical and literary entertainment, are held in the Chapel of the Institute on the last Saturday evening in the month of April.

THE CONTEST IN ELOCUTION.

A contest in Elocution for the prize in that subject, open to all the members of the Institute, takes place in Bucknell Hall on the second Saturday evening in the month of May.

ALUMNÆ SOCIETIES.

The Alumnæ Association holds its anniversary on Monday afternoon of Commencement week.

The Lewisburg Alumnæ Club meets at the Institute on the second Tuesday of each month during term-time.

The Philadelphia Alumnæ Club is composed of graduates living in and near that city.

STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute an association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnæ and friends of the Institute. The money is loaned to beneficiaries, who obligate themselves to return it, *without interest*, as soon after their graduation as they may be able.

Before the organization of this Society, many promising students at Bucknell Institute were unable to finish the course of study because there was no provision for financial assistance.

Since 1887, but for the help of this Association, some of the best of our graduates would have been deprived of the training which has fitted them for the positions they now fill as teachers, authors, missionaries, and pastors' helpers.

During the first decade, twenty-four young ladies received aid. More than one half of these have returned the loan in full.

The Society meets in the parlors of the Institute on the first Wednesday afternoon after the opening of each term, at half-past two o'clock.

The annual meeting for the election of officers is held at the Institute on the first Wednesday after the opening of the winter term.

The payment of one hundred dollars constitutes the donor a Life Member of the Association; five dollars annually, an Active Member.

Contributions should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa. Any information will be given by the President, Mrs. Katherine B. Larison, Lewisburg, Pa., or Mrs. John T. Judd, Corresponding Secretary, Lewisburg, Pa.

DEPARTMENT OF ELOCUTION.

MISS EDITH SCHILLINGER.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought. Special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals afford opportunity for platform work. Bible reading and study of Shakspeare have places in the course. Special courses are offered to students who wish to take private lessons in elocution. Particular attention is given to curing persons of stammering and other defects in speech.

SPECIAL STUDENTS IN ELOCUTION.

NAME.	RESIDENCE.	ROOM.
DANA MELISSA BOWER,	<i>Elkhart, Ind.</i>	Women's College
HARRIET KREMER BOWER,	<i>Lewisburg.</i>	South Sixth Street
LOIS MAY BROWN,	<i>Lewisburg.</i>	Lewisburg
MARY MATILDA BROWN,	<i>Lewisburg.</i>	Lewisburg
CLARA HARRIET COLLINS,	<i>Scottdale.</i>	Women's College
FANNIE DERR,	<i>Lewisburg.</i>	Market Street
WINNIE VIOLA DICKSON,	<i>Akron, O.</i>	Women's College
RUTH ANNA FAIRCHILD,	<i>Germantown.</i>	Women's College
EUDORA REGINA HAMLER,	<i>Lewisburg.</i>	West Market Street
HELEN HARE,	<i>Lewisburg.</i>	University Avenue
MARY HENDERSON,	<i>Uniontown.</i>	Women's College
BERTHA GERTRUDE HENSHEY,	<i>Brookville.</i>	Women's College
JENNIE HOPWOOD,	<i>Plymouth.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
MAY ELIZABETH JONES,	<i>Franklin.</i>	Women's College
IDA McFADDEN,	<i>Uniontown.</i>	Women's College
CAROL COOKE MEESER,	<i>Ridley Park.</i>	Women's College
ALLIE CLARK PLATT,	<i>New Haven, Conn.</i>	Women's College
ETHEL MILDRED ROYAL,	<i>Camden, N. J.</i>	Women's College
GRACE VIRGINIA ROYER,	<i>Lewisburg.</i>	Lewisburg
MABEL SLOUT,	<i>Williamsport.</i>	Women's College
GRACE SMITH,	<i>Sunbury.</i>	Sunbury
ANNA STAGE,	<i>Clearfield.</i>	Women's College
NELLIE STEVENS,	<i>Sunbury.</i>	Sunbury
HELEN ELIZABETH STURR,	<i>Elmer, N. J.</i>	Women's College
ELIZABETH R. WEDDLE,	<i>Rilton.</i>	Women's College
DORIS ELIZABETH WHITNEY,	<i>Buffalo, N. Y.</i>	Women's College
HARRIET LAVINIA WILSON,	<i>Frankford.</i>	Women's College
Students in Elocution, 27.		

THE ART DEPARTMENT.

MISS FLORENCE CHRIST CALLAGHAN.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this Department, in a special studio, which provides such adjustments for admission of light, and unencumbered wall surface as to render it adapted for the execution and display of art productions.

For such students as desire opportunity for work preparatory to professional study, and to those who wish to fit themselves to give systematic instruction in drawing, the following course is provided:

First Year. Drawing in Pencil, Charcoal, and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of Perspective, the Laws of Proportion, and the Relations of Light and Shade.

Second Year. Drawings from the Antique in Coal, Crayon, Sepia, or Oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies and Still Life.

Third Year. Composition, Color in Landscape, Pen and Ink Drawing, and Painting in Color from Nature and from Life.

On the successful completion of this entire course, a certificate of proficiency will be awarded.

Students who do not desire the certificate course, and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods—China Painting, Tapestry, Dyeing, and Applied Design in other mediums and materials.

Charges for instruction in Art are as follows:

	Per Annum.
Drawing	\$24.00
Crayoning	33.00
Painting in Oil, Water Colors, Pastel, or on China	60.00
	Per Lesson.
Special individual instruction in Painting.....	\$1.00

All bills must be paid to the Registrar of the University, within the first ten days of each term.

Freehand Drawing is a part of the required work of the school without extra charge.

ART EXHIBIT.

On Saturday, Monday, and Tuesday of Commencement week, a display of art products by the pupils of the School of Art is made in the Studio. At this time a committee of Art students receives and entertains all those who visit the Studio.

STUDENTS IN ART.

NAME.	RESIDENCE.	ROOM.
RUBY LEONA BUFFINGTON,	<i>Brookville.</i>	Women's College
NELLE DENNISON,	<i>Coal Glen.</i>	Women's College
PEARL R. DEYOE,	<i>New Haven.</i>	Women's College
ELLEN WOLFE FOCHT,	<i>Lewisburg.</i>	South Second Street
HELEN MARY GROVE,	<i>Lewisburg.</i>	North Third Street
ADALENE BING HOLLAND,	<i>DuBois.</i>	Women's College
MARIE HUMPHREY,	<i>Brookville.</i>	Women's College
LOUIS E. JONES,	<i>Bellefonte.</i>	Bellefonte
ERMA KLINEFELTER,	<i>North Bend.</i>	Women's College
EMILY ANGELINE LANE,	<i>Lane's Mills.</i>	Women's College
SARAH MERTIE MOURER,	<i>Danville.</i>	Danville
S. ELLA SMITH,	<i>Reading.</i>	Women's College

KATHERINE GEARHART VASTINE,

Danville

Danville.

MYRTLE HARGRAVE WALKINSHAW,

Women's College

Greensburg.

HELENA WAY,

Women's College

Cape May C. H., N. J.

Students in Art, 15.

GENERAL INFORMATION.

ADVANTAGES.

The Bucknell Institute offers to young women superior educational advantages. Its location in a University town assures an atmosphere of study and the benefit of numerous literary exercises, lectures, and addresses. The students in the Institute have the use of the Library and apparatus of the Institute, and also of the College Astronomical Observatory, Chemical Laboratory, Museum and Library, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

During the year 1905 about forty thousand dollars was expended in enlarging and improving the women's buildings.

ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Women's College, Institute, and School of Music is vested in the President of the University.
2. The government of the Institute, subject to such control, rests with the Dean.
3. Young women, whether attending the College, Institute, or School of Music, are subject to the rules and regulations governing young women attending the Women's College.

RULES.

The laws governing the Women's College, are enacted by the Board of Trustees and a copy is given to each student when she enters the Institution.

Any officer of the Institute becoming cognizant of violation of regulations by any pupil shall report the same to the Dean, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall be reported to the President of the University; and if, in the judgment of the President of the University and the Dean, the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

Violations of the regulations of the Women's College or infraction of the laws of morality are punished by private reprimand, deprivation of privileges, or private withdrawal from the Institution.

Summary punishment may be inflicted whenever the interests of the Institution demand it.

PRIZES.

I. BUCKNELL PRIZES.

The following prizes were founded by William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1907 the First Prize of twenty-four dollars was awarded to Helen Hare, and the Second Prize of sixteen dollars to Ada Ellen Moore.

3. A Third Senior Prize to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades of studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the Institute.

For the year 1907 this prize of twenty-five dollars was awarded to Helen Hare.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1907 these prizes were awarded as follows: Carol Frances Spratt received the First Prize of twenty dollars; Alma Margaret Deitrich, the second Prize of fifteen dollars.

The fund consists of \$2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay Prizes will be drawn from the following works:

For 1908—Shakspere's Hamlet; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Macaulay's Life of Johnson; Scott's The Lay of the Last Minstrel.

II. THE ELOCUTION PRIZE.

A prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1907 the prize was awarded to Elizabeth Budd Mulford.

EXPENSES OF INSTITUTE STUDENTS.

I. Boarding Students. The regular charge for Boarding Students is \$260.00 per annum; the other expenses, spending money, books, and clothing, will vary with the individual student.

An additional charge will be made when one student occupies a double room alone in the Main Building. Extra charge will also be made for front corner rooms in the West Wing.

Students are charged extra for the washing of dresses, and for the washing of more than twelve pieces per week.

For the rooms in the Bucknell Cottage and in New Cottage there is an extra charge, depending on the location.

Students from a distance will save inconvenience by applying for a room before the term opens. A deposit of ten dollars is required when a room is chosen. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

Students will be charged for damage done to furniture or to the room they occupy.

II. Day Students. The charges for Day Students amount to \$75.00 per annum.

III. Extra Studies. The charges for Elocution, Drawing and Painting, and Music will be found under those titles.

All bills must be paid within the first ten days of each term.

Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term; and no deductions will be made, except in the charge of board, in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examination and on anniversary occasions, are paid by the class or classes which incur the expenses.

The fee for Graduation and Diploma is \$5.00

Free scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service*.

For information respecting the Institute, address the Dean of the Department for Women, Thomas A. Edwards, A. M., or the President of the University.

BUCKNELL SCHOOL OF MUSIC.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR.

EDITH METCALF,
PIANO.

RUTH ANGELENE BOTTORF,
PIPE ORGAN, PIANO, VIRGIL CLAVIER.

MARY ELIZABETH BOYNTON,
PIANO, VIRGIL CLAVIER.

WINIFRED GRACE ISAAC,
VOCAL.

EMMA GRIER GEARHART,
ASSISTANT IN VOCAL MUSIC.

PAUL GARFIELD STOLZ,
HARMONY AND HISTORY OF MUSIC.

GRADUATES, 1907.

NAME.	COURSE.	RESIDENCE.
BELLE EMILY CRAIG,	<i>Violin.</i>	Philadelphia
NINA KRAUSER HACKENBURG,	<i>Piano and Harmony.</i>	Milton
PRISCILLA RICHARDSON HARDESTY,	<i>Piano, Pipe Organ, and Harmony.</i>	Washington, D. C.
RACHEL MAY KUNKLE,	<i>Piano and Harmony.</i>	Lewisburg
LEO LAWRENCE ROCKWELL,	<i>Violin.</i>	Monroeton
SARAH EMMA ZEIBLER,	<i>Piano, Pipe Organ, Voice, Harmony.</i>	Punxsutawney

NAMES OF STUDENTS.

PIANO.

NAME.	RESIDENCE.
HENRY SNARE AFRICA	Huntingdon
HELEN CATHERINE ALLEN	Lewisburg
EDNA IRENE ANGSTADT	Lewisburg
KATHERINE ETHEL BAILEY	Wellsboro
EMANUEL R. BECK	White Deer
MARY C. BECK	White Deer
GEORGE BENDER	Lewisburg
RUTH HOLDEN BERGSTRESSER	Milton
BESSIE BROWN	Lewisburg
BERTHA BROWN	Lewisburg
RUBY LEONA BUFFINGTON	Brookville
PEARL L. BURPEE	Lewisburg
HARRIET C. BURROWS	Sunbury
MARGARET CHAPPELL	Scranton
CLARA HARRIET COLLINS	Scottdale
HAZEL MIRIAM CRAIG	Philadelphia
MARY ELIZABETH DAVISON	Danville
MARY EDNA DEITRICH	Madisonburg
BERTHA DEITRICH	Chester
GENEVIEVE ODESSA DENT	Dent's Run
PEARL R. DEYOE	New Haven
ANNA KALER DREISBACH	Lewisburg
WALTER H. EDWARDS	Wilmington, Del.
RUTH ANNA FAIRCHILD	Germantown
JOHN GAMBOA	Merida, Yucatan
FRANK KEMP GIBSON	Gillette, Wyoming
MARGARET GRAY	Curwensville
MARGARET CHRISTINE GRETZINGER	Lewisburg
FRANCES LLOYD GROFF	Lewisburg
CARRIE M. GRUGAN	West Milton
CHRISTINE HARRIS	Salem, N. J.
CHARLOTTE MAY HAWK	Tower City
DAISY VALLEY HEGERTY	Madera
MARY HENDERSON	Uniontown

NAME.	RESIDENCE.
BERTHA GERTRUDE HENSHEY	Brookville
ADALENE BING HOLLAND	Du Bois
MARIE HUMPHREY	Brookville
PHILLIP MUSSER IREY	Rochester
MARTHA KEARNEY	Brockwayville
HARRIET YARGER KEISER	Lewisburg
ERMA KLINEFELTER	North Bend
MARIE REED LINCOLN	Mifflinburg
LEAH ELIZABETH LINDIG	Lewisburg
OLIVE MARIE LONG	Mill Hall
LOUISE MARSH	Lewisburg
GERALDINE HOUTZ MASSER	Sunbury
L. BLANCHE MARTIN	Montandon
OLIVE TAYLOR MILLER	Watson town
ELENA MOESCHLIN	Sunbury
ELIZABETH BUDD MULFORD	Bridgeton
ELEANOR BELLE NIXON	Fairchance
MARY LENA OTTO	Sunbury
JEANETTE OWENS	Lewisburg
CLARA J. PAWLING	West Milton
ALLIE CLARK PLATT	New Haven, Conn.
ELEANOR EMMA PROSS	Lewisburg
JESSIE M. PURSELL	Muncy
SARAH L. RAUP	Milton
MAUD ELEANOR RINGLER	Mifflinburg
NAROLA ELIZABETH RIVENBURG.....	Clifford
ETHEL MILDRED ROYAL	Camden, N. J.
RUTH ROYAL	Camden, N. J.
MARTHA SHREVE	Erie
LAURA MAUDE SHULTZ	Sunbury
MARY ELIZABETH SLEAR	Sunbury
ELIZABETH STAGE	Clearfield
ELIZABETH STEPHENS	Lewisburg
MARY ELLEN STINE	Sunbury
ETHEL ELIZABETH STRASSER	Muncy
ANNA TULE	Milton
LOLA MIRIAM ULRICH	Penn Hall
MARY ELLEN WALLER	Baltimore, Md.
HELENA WAY	Cape May Court House, N. J.
ELIZABETH R. WEDDLE	Rillton
WINIFRED WERKHEISER	West Milton
DORIS ELIZABETH WHITNEY	Buffalo, N. Y.

NAME.	RESIDENCE.
HARRIET LAVINIA WILSON	Frankford
DOROTHY WOLFE	Lewisburg
VIOLETTA WOLFE	Rebersburg

PIPE ORGAN.

RUBY LEONA BUFFINGTON	Brookville
PEARL R. DEYOE	New Haven
ELIZABETH SUSAN HARBEL	Milton
MARIE HUMPHREY	Brookville
ISABELLE GRAY MATTERN	Mifflinburg
JEANETTE MENSCH	Mifflinburg
JESSIE M. PURSELL	Muncy
HELEN ELIZABETH STURR	Elmer, N. J.

VOICE.

RUBY LEONA BUFFINGTON	Brookville
HARRIET C. BURROWS	Sunbury
CLARA HARRIET COLLINS	Scottsdale
MARY EDNA DEITRICH	Madisonburg
GENEVIEVE ODESSA DENT	Dent's Run
JOSEPH EARLE EDWARDS	Wilmington
WALTER H. EDWARDS	Wilmington
NEWTON CROMWELL FETTER	Reading
JEANETTE FUNK	Milton
CHRISTINE HARRIS	Salem, N. J.
MYRA ALVERNA HIGH	White Deer
ADALENE BING HOLLAND	Du Bois
KATHERINE HOPPER	Lewisburg
MABEL ELIZABETH JOHNSON	Mt. Carmel
IDA GERTRUDE LINDNER	Milton
HELEN BROWN MCCLURE	Watsonstown
CAROL COOKE MESSER	Ridley Park
WALTER MOORE	Milton
BESSIE B. MORGAN	Sunbury
BERTHA A. NEWBAKER	Danville
GRACE ELIZABETH ORWIG	Lewisburg
WILLIAM EDWIN PARSONS	Montgomery
MARY ALVERNA PAWLING	West Milton
RUBY GEORGIA PIERSON	Clifton Forge, Va.
PEARL SAFFLE	Lewisburg

NAME.	RESIDENCE.
LUCILLE SAVIDGE	Sunbury
EDNA ALICE SEAMAN	Allentown
GEORGE P. SHIELDS	Oil City
JULIA IRENE SMEED	Lewisburg
ANNETTA AMELIA STAHL	Lewisburg
MARY EDNA STAROOK	Lewisburg
MARY A. STERNER	Montgomery
ETHEL ELIZABETH STRASSER	Muncy
LOLA MIRIAM ULRICH.....	Penn Hall
MARY ELLEN WALLER	Baltimore, Md.
NALA DAMAYANTI WEBB	Rutherford, N. J.
ELIZABETH R. WEDDLE	Rillton
HARRIET LAVINIA WILSON	Frankford

HARMONY—HISTORY OF MUSIC.

WILLIAM ANDREW BARTOL	Lewisburg
GEORGE BENDER	Lewisburg
BERTHA BROWN	Lewisburg
RUBY LEONA BUFFINGTON	Brookville
HARRIET C. BURROWS	Sunbury
CLARA HARRIET COLLINS	Scottdale
HAZEL MIRIAM CRAIG	Philadelphia
MARY ELIZABETH DAVISON	Danville
PEARL R. DEYOE	New Haven
MARY EDNA DETRICH	Madisonburg
RUTH ANNA FAIRCHILD	Germantown
MARGARET GRAY	Curwensville
MARGARET CHRISTINE GRETZINGER	Lewisburg
CHARLOTTE MAY HAWK	Tower City
MARY HENDERSON	Uniontown
BERTHA GERTRUDE HENSHEY	Brookville
ADALENE BING HOLLAND	Du Bois
MARIE HUMPHREY	Brookville
PHILLIP MUSSER IREY	Rochester
MABEL ELIZABETH JOHNSON	Mt. Carmel
MARTHA KEARNEY	Brookwayville
ERMA KLINEFELTER	North Bend
L. BLANCHE MARTIN	Montandon
ISABELLE GRAY MATTERN	Mifflinburg
ELIZABETH BUDD MULFORD	Bridgeton, N. J.
BERTHA A. NEWBAKER	Danville

NAME.	RESIDENCE.
ELEANOR BELLE NIXON	Fairchance
MARY LENA OTTO	Sunbury
JEANETTE OWENS	Lewisburg
WILLIAM EDWIN PARSONS	Montgomery
CLARA J. PAWLING	West Milton
JESSIE M. PURSELL	Muncy
ETHEL MILDRED ROYAL	Camden, N. J.
LAURA MAUD SHULTZ	Sunbury
MARY ELIZABETH SLEAR	Sunbury
ELIZABETH STEPHENS	Lewisburg
ETHEL ELIZABETH STRASSER	Muncy
HELEN ELIZABETH STURR	Elmer, N. J.
LOLA MIRIAM ULRICH	Penn Hall
MARY ELLEN WALLER	Baltimore, Md.
ELIZABETH R. WEDDLE	Rillton
HARRIET LAVINIA WILSON	Frankford
DOROTHY WOLFE	Lewisburg

MANDOLIN, GUITAR, BANJO.

WILLIAM ANDREW BARTOL	Lewisburg
MARY C. BECK	White Deer
RUBY LEONA BUFFINGTON	Brookville
NORMAN BUCKLAND GARDNER	Johnstown
FRANK KEMP GIBSON	Gillette, Wyo.
MARGARET CHRISTINE GRETZINGER	Lewisburg
PEARL REAM	Lewisburg
MABEL SLOUT	Williamsport
HELEN ELIZABETH STURR	Elmer, N. J.
ETHEL ELIZABETH STRASSER	Muncy
MARY ELLEN WALLER	Baltimore, Md.
GRACE ETHEL WATKINS	Scranton
HARRIET LAVINIA WILSON	Frankford
DOROTHY WOLFE	Lewisburg
CORA MAY WRIGHT	Lewisburg

VIOLIN, VIOLA, VIOLONCELLO, DOUBLE BASS.

WILLIAM ANDREW BARTOL	Lewisburg
EMANUEL R. BECK	White Deer
ISABELLE GRAY MATTERN	Mifflinburg
PEARL SAFFLE	Lewisburg

CAROL FRANCES SPRATT	Lewisburg
LOUISE ROBINSON	Milton

FLUTE, CORNET, CLARINET, TROMBONE.

PEARL R. DEYOE	New Haven
ALBERT WAFFLE OWENS	Lewisburg

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<hr/>	
Total Lessons	192
Total Pupils	115

COURSES OF STUDY.

The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

INSTRUMENTAL MUSIC.

COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *études*, designed to unite with purely technical drill the requirements of artistic style and expression.

PIANO.

FIRST YEAR.

New England Conservatory method, 1 and 2 parts; Le Couppey Ecole du Mécanisme; Duvernoy Ecole du Mécanisme, books 1, 2, and 3; Kohler, op. 157; Czerny, fifty Studies from op. 261, 821, 599, and 139, ed. of Heinrich Germer; Meyer, Progressive and Melodious Studies; Robert Sutton's "The Elements of the Theory of Music"; Brown, Musical Biographies of Composers.

SECOND YEAR.

Plaidy, Technical Studies; Czerny, Polyrhythmic Studies from op. 139, 834, 335, and 299; Czerny, Studies of Ornamentation from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740;

Czerny, thirty Studies from op. 299 and 834 (Heinrich Germer Edition); Heller, Expression and Rhythm, op. 135; Kullak, Preparatory Octave Studies; Homer Norris's Practical Harmony; History of Music.

THIRD YEAR.

Clementi "Gradus ad Parnassum"; Tausig, Daily Studies; Kohler Cramer Studies, books 1, 2, and 3; Czerny, thirty-six Octave Studies from op. 821, 355, 740, and 834 (Heinrich Germer Edition); Norris, Harmony; Dr. Marx, Universal School of Music.

FOURTH YEAR.

Bach, two and three-voiced invention; Czerny, twenty Studies from op. 325; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Heinrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; Bach Well-Tempered Clavichord (prelude and fugues); Kullak, Art of Touch; Symphonies of Haydn, Mozart, and Beethoven.

During the year, selected studies from Bertini, Rosselen, Moscheles, Heez, and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of the works of the best composers.

COURSE FOR PIPE ORGAN.

This course is based upon:

Dudley Buck's Pedal Studies, and upon the works of Rink, Batiste, Lefébre-Wely, Guilmant, and others.

COURSE FOR THE VIOLIN.

This course is based upon:

Dancla's School Mechanism; De Beriot's Violinist's First Guide; Florrillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from compositions of the best writers for this instrument.

COURSE FOR THE VIOLONCELLO.

Instruction for this instrument is based upon:

Method Pratique pour le Violoncello, par S. Lee; studies by Piatti and Romberg.

COURSE FOR THE VIOLA.

Bruni's Methods and Studies, by Campagnoli.

COURSE FOR CONTREBASSO (DOUBLE BASS).

Bottesini's Method.

VOICE CULTURE.

COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness, and durability, thorough drills are afforded in such technical exercises as:

Lamperti's and Vannuccini's Italian Methods, Vocalises of Sieber, Concone, Tütgen, Vaccai, Bonaldi, Bordogni, Marchesi, and Ponafka; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias and Solos from the Oratorios.

COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included in the other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are: Bussler's Harmonic Exercises, Homer Norris's Practical Harmony, Richter's Counterpoint, and Reicha's Course of Musical Composition.

THE ORCHESTRA.

CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart and Haydn.

THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School of Music. The band meets weekly in the Laboratory for rehearsal, and furnishes street and concert music for University and town exercises.

RECITALS.

On the Friday evening prior to Commencement week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency is held in Bucknell Hall the Saturday afternoon before commencement. At this time each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

TUITION.

Extra tuition is charged for instruction in Music, as follows:

Per Annum.

Vocal Music	\$60 00
Music on Piano <i>or</i> Organ.....	60 00
Harmony, in Class.....	18 00
Harmony, in private lessons.....	60 00
Use of Instruments for practice.....	10 00
Guitar, in Class.....	15 00

Per Lesson.

Special individual instruction in Music.....	\$1 00
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No reduction is made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

Payment strictly in advance at the beginning of each term.

RESIDENCE OF MUSIC PUPILS.

Pupils in music reside in the Women's College and are under the care of the Dean of the Department for Women. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature.

The regular charges for pupils in music, residing in the Institute, including one literary subject per term, are \$215 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

GRADUATION IN MUSIC.

Students who complete any of the Courses in Music and pass the examination, receive a certificate of proficiency. Students will not be taken as Seniors in Music until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the spring term, and a final examination before Commencement week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.

AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established four prizes as follows:

1. (a) One prize for excellence in Instrumental, Vocal Music and Harmony; (b) one for excellence in Science of Music. For 1907 the Music prize was awarded to Miss Priscilla Richardson Hardesty.

2. One prize for excellence in French and one for excellence in Spanish. For 1907 the first French prize was awarded to Miss Anne Galbraith; the second, to Mr. Coit Roscoe Hoechst. The Spanish prize was divided between Miss Priscilla Richardson and Mr. Frank Smigelsky.

GENERAL REGULATIONS.

Young ladies attending upon the School of Music are subject to the administration and other regulations enacted by the Board of Trustees for the government of students in the Women's College. These rules are given on page 191 of this Catalogue. Students of Music are also entitled to all the privileges of the Women's College.

For information respecting the School of Music, address the Director, Elysée Aviragnet, Mus. Doc., or the President of the University.

UNIVERSITY CALENDAR.

1908-1908

Second Term Ends,.....Thursday, March 26, 1908

SPRING RECESS.

Third Term Begins,.....Tuesday, March 31, 1908
 Sermon before the Christian Association,...Sunday, April 5, 1908
 Declamation of the Third Form, Academy, Saturday, April 18, 1908
 Exercises of the Fourth-Year Class, Institute,

Saturday, April 25, 1908

Contest in Elocution, Institute,.....Saturday, May 9, 1908
 Exhibition of the Junior Class, College,.....Friday, May 15, 1908
 Examinations,Wednesday to Saturday, June 10 to 13, 1908
 Exhibition, School of Music,.....Friday, June 12, 1908
 Junior Debate,.....Saturday, June 13, 1908
 Baccalaureate Sermon,.....Sunday, June 14, 1908
 Sermon before the Education Society,.....Sunday, June 14, 1908
 Examinations for Admission to College,....Monday, June 15, 1908
 Meeting of the Alumnæ of the Institute,...Monday, June 15, 1908
 Oration before the Literary Society,.....Monday, June 15, 1908
 Annual Meeting of the Trustees,.....Tuesday, June 16, 1908
 Annual Meeting of the Alumni,.....Tuesday, June 16, 1908
 Graduation of the Fourth Form, Academy, Tuesday, June 16, 1908
 Graduating Exercises of the Institute,....Tuesday, June 16, 1908
 Oration before the Alumni,.....Tuesday, June 16, 1908
 ANNUAL COMMENCEMENT, the 58th, Wednesday, June 17, 1908

SUMMER VACATION.

Fall Examinations for Admission to College,

Wednesday, September 16, 1908

First Term Begins,.....Thursday, September 17, 1908
 Reception by Christian Association, Saturday, September 19, 1908
 Introductory Address,.....Monday, September 21, 1908
 Matriculation,Monday, November 23, 1908
 Thanksgiving (recess of three days), Thursday, November 26, 1908
 First Term Ends,.....Thursday, December 17, 1908

HOLIDAY RECESS.

Second Term Begins,.....Tuesday, January 5, 1909
 Day of Prayer for Colleges,.....Thursday, January 28, 1909
 Second Term Ends,.....Thursday, March 30, 1909

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Bucknell University Bulletin.

TH SERIES

JANUARY, 1909

NO. 3



CATALOGUE

1908=1909



Published Quarterly by the Bucknell University,
Lewisburg, Pennsylvania.

THE
FIFTY-NINTH CATALOGUE

OF THE
OFFICERS AND STUDENTS

OF

Bucknell University:

COLLEGE OF LIBERAL ARTS

FOR THE YEAR 1908-1909

9 W

THE MILLION-DOLLAR MOVEMENT.

The Board of Trustees at its meeting in January, 1903, authorized an effort to increase the endowment by one million dollars. It is expected to obtain this sum by gifts and legacies.

FORMS OF GIFTS.

To persons wishing to give money for the education of the young, the following forms of beneficence are suggested:

(a) Departments can be endowed for \$100,000 and upward.

(b) Professorships can be endowed for \$50,000 each.

(c) Fellowships can be endowed for \$10,000 each.

(d) Scholarships can be endowed by a gift of \$1,000 to \$5,000 each, the income to be given toward the expenses of the student. The income is estimated from the average income of the funds of the Institution, and is applied only in the year in which it falls due.

(e) A loan fund has been established. The interest from this is loaned to students, the principal being kept intact. In this way a large, active loan fund accumulates.

(f) A fund for the retirement of professors who, after long service, have, through age or infirmity, become unable to render further efficient service.

Each of these forms of beneficence will bear and perpetuate the name of the donor or of the person designated by him.

FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in their work of preparing young men and young women for usefulness, the following form of bequest is recommended :

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of.....Dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.

Or if for a special purpose :

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of.....Dollars for the establishment of a department, professorship, fellowship, scholarship, loan fund, or retirement fund, to bear and perpetuate the name of.....forever.

ORGANIZATION.

The University comprises four schools:

I. THE COLLEGE offers eight Courses of study, each of four years, and each leading to the appropriate degree:

1. The Classical Course.
2. The Philosophical Course.
3. The Course in Jurisprudence.
4. The General Science Course.
5. The Course in Biology.
6. The Course in Chemistry.
7. The Course in Civil Engineering.
8. The Course in Electrical Engineering.

II. THE INSTITUTE for young women has three Courses of study, the Literary, the Classical, and the Scientific, leading to diplomas which admit to the Sophomore year in College.

III. THE ACADEMY is designed to fit young men for College, either for the Classical, Philosophical, Scientific, or Technological Courses.

IV. THE SCHOOL OF MUSIC has full Courses in instrumental and vocal music, and grants diplomas to those who complete any of the specified Courses.

These schools are one corporation, have one President, who has general charge, with a Principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

THE BOARD OF TRUSTEES.

CHAIRMAN, HARRY S. HOPPER, ESQ.,

28 South Third Street, Philadelphia.

SECRETARY, A. JUDSON ROWLAND, D. D., LL. D.,

1701 Chestnut Street, Philadelphia.

TREASURER, DAVID PORTER LEAS, A. M.,

400 South Fortieth Street, Philadelphia.

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MR. JOHN D. JOHNSON.

DAVID PORTER LEAS, A. M.

RAIGE LIPPINCOTT, ESQ.

HON. HAROLD M. McCLURE, A. M.

EN. CHARLES MILLER, A. M.

GEORGE M. PHILIPS, PH. D., LL. D.

A. JUDSON ROWLAND, D. D., LL. D.

HON. JOSEPH C. SIBLEY, LL. D.

LEROY STEPHENS, D. D.

JAMES S. SWARTZ, A. M.

HON. F. J. TORRANCE, A. M.

HON. ERNEST L. TUSTIN, A. M.

MR. CHARLES S. WALTON.

JOSEPH K. WEAVER, A. M., M. D.

HENRY G. WESTON, D. D., LL. D.

HON. SIMON P. WOLVERTON, LL. D.

MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement Week, at
Wisburg.

The semi-annual meeting is held on the second Thursday in January,
Philadelphia.

COMMITTEES OF THE BOARD.

COMMITTEE ON INSTRUCTION

A. JUDSON ROWLAND, D. D., *Chairman.*

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REV. LEROY STEPHENS, D. D. HON. ERNEST L. TUSTIN, A. M.
GEORGE M. PHILIPS, PH. D., LL. D. RALPH A. AMERMAN,
AND THE PRESIDENT.

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JOSEPH K. WEAVER, M. D. HON. E. A. ARMSTRONG, A. M.
HON. FRANCIS J. TORRANCE, A. M. CHARLES S. WALTON.
AND THE PRESIDENT.

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GEN. CHARLES MILLER, A. M.

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AND THE PRESIDENT.

THE UNIVERSITY PROPERTY.

I. THE MAIN COLLEGE.

The main College building is situated on a hill one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The building has a façade of three hundred and twenty feet. The central portion is eighty feet square, and is strengthened in front by four massive columns. On the first floor are six recitation rooms. On the second floor are the halls of the Theta Alpha and Euepia Literary Societies, and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western sides, respectively, of the Main Building, are each one hundred and twenty feet in length and four stories in height, and are used for students' rooms.

Several thousand dollars have been expended recently in improving the College building.

II. THE WEST COLLEGE.

The West College was erected in the year 1900. It is constructed of brick, four stories in height, trimmed with brownstone, and contains ninety-seven rooms, one of which is a hall for the use of the Young Men's Christian Asso-

ciation, and the others are designed for the residence of students.

III. THE EAST COLLEGE.

The East College is a building of brick, trimmed with brownstone. The first story is assigned to the Electrical Laboratory, with a floor surface of some twenty-five hundred feet, and to recitation rooms. The other stories contain one hundred and twelve rooms for students.

IV. THE BUCKNELL HALL.

Bucknell Hall is the Chapel of the College. In it all the students of the College meet daily for worship.

V. THE CARNEGIE LIBRARY BUILDING.

The Library building was given by the Honorable Andrew Carnegie, D. C. L., in the year 1905.

The building is sixty-four feet by ninety, built of pressed brick, and trimmed with brownstone. The center, thirty feet by ninety, is used as a reading room. At the height of sixteen feet there is a gallery extending around the room. The sides, each fifteen feet by ninety, are divided on the first floor into rooms for special collections and for offices. The second and third floors will be used for stack rooms. The building will accommodate about one hundred and fifty thousand volumes.

VI. THE OBSERVATORY.

The Observatory was erected in 1887 and enlarged in 1905. It is designed for the use of students in Practical Astronomy.

The equipment represents the latest improvements in astronomical instruments. It consists of a Clark Equatorial

Telescope of ten inches aperture and twelve and one half feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope with prism and grating by Brashear; a three-inch prismatic Transit, with a thirteen-wire movable Micrometer; a Fauth Chronograph with Bond Spring Governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a three-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretical and Practical Astronomy.

VII. THE CHEMICAL LABORATORY.

The Laboratory was erected in 1890, and is a building forty-three feet in width and eighty-six feet in length, with two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture room, with seating for one hundred and twenty-five students, and a large working room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture room and rooms for laboratory work in Organic Science; the basement has rooms for Applied Chemistry, and a fire-proof room.

VIII. THE PHYSICAL LABORATORY.

The Physical Laboratory was erected in 1902. It is a building of two stories, fifty by sixty, constructed of brick trimmed with brownstone. The basement serves for the heating and lighting plant of the institution; the main story, with one room twenty by fifty and another forty by forty-five, accommodates the Department of Physics. A large dark room was added to the equipment in 1905.

IX. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains an office for the director, rooms for students, lockers, dressing rooms, and shower baths. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height of twelve feet a running-track gallery, six feet wide, surrounds the room.

X. THE ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up for outdoor sports. In the northwest corner, at the main entrance to the College grounds, a shaded section has been set aside for tennis. The athletic field is sufficiently large for football, baseball, and lacrosse. A running track, a quarter-mile in length, has been constructed on the eastern part of the campus. The Tustin Gymnasium is located at the end of the field, so as to be near to the center of exercise, and easily accessible to the trainers and students.

XI. THE ACADEMY.

1. **The Main Building** of the Academy is situated on "College Hill," and is fifty feet in width by eighty feet in length, and three stories in height. On the first floor is a dining room, thirty feet by thirty-six feet; two recitation rooms, a reception room, and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron. The third floor is used for students' rooms, each twenty feet by twelve feet, and fourteen feet high.

2. **The East Hall** of the Academy is the Bucknell Cottage for young men, and is contiguous to the Main Building

and connected with it by a covered passageway. It is of brick, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a general study room, a recitation room, teachers' apartments, and rooms for students. The rooms have high ceilings, large double windows with inside shutters, and two commodious closets each.

Both buildings are supplied with hot and cold water, are warmed by steam, and lighted by electricity.

XII. BUILDINGS OF THE WOMEN'S COLLEGE.

The buildings and campus of this department are set apart for the use of women taking courses in the College, in the Institute, and in the School of Music.

1. **The Main Building** contains, on the first floor, an office for the Dean and the Registrar, a reception room, the office of the Director of Music, music rooms, recitation rooms, and a dining hall; on the second floor a school-room and a parlor; on the third floor, a library room, teachers' apartments, and students' rooms. The main building was enlarged, 1905, by an addition to the dining hall.

2. **The South Hall**, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately improved and equipped.

3. **The Bucknell Cottage** stands to the southwest of the Main Building, and is connected with it by an enclosed passageway. It is built of brick, in the Queen Anne style of architecture, and has dimensions of forty feet by one hundred feet. The interior is finished in natural wood, and is equipped, in matters of light, heat, and ventilation, with modern improvements.

The portion allotted to students' rooms affords accom-

modations for forty occupants. These rooms are in suites on the general plan of a center parlor, with bedrooms and closets on either side. In this building is the Studio, a spacious room with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

4. **New Cottage** for women, with a front of one hundred and twenty-eight feet and a depth of forty feet, rising three stories above the basement, was erected in 1905. It contains eighty-seven rooms.

The **Calisthenium** occupies the upper story, and has a floor surface of over four thousand feet.

All the buildings are supplied with hot and cold water, are warmed by steam, and lighted by electricity.

5. **The Campus** of the Women's College is separated from the main College grounds by Loomis Street.

XIII. HEATING AND LIGHTING PLANT.

A central steam heating and electric lighting plant has been erected; all the rooms, public and private, in the several buildings of the institution, are warmed and lighted from this plant.

XIV. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University.

THE COLLEGE.

THE FACULTY AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D., PRESIDENT,
AND PROFESSOR OF PSYCHOLOGY AND ETHICS.

*FREEMAN LOOMIS, A. M., PH. D.,
PROFESSOR OF MODERN LANGUAGES AND LITERATURE.

GEORGE G. GROFF, M. D., PH. D., LL. D.
PROFESSOR OF ORGANIC SCIENCE.

WILLIAM CYRUS BARTOL, A. M., PH. D.,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

FRANK ERNEST ROCKWOOD, A. M., LL. D.
PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE AND DEAN OF
THE COLLEGE.

WILLIAM GUNDY OWENS, A. M.,
PROFESSOR OF CHEMISTRY.

ENOCH PERRINE, A. M., LITT. D.,
PROFESSOR OF THE ENGLISH LANGUAGE AND LITERATURE AND SECRE-
TARY OF THE FACULTY.

THOMAS FRANKLIN HAMBLIN, A. M.,
NEW JERSEY PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

*Retired.

WILLIAM EMMET MARTIN, A. M., L. H. D.,
PROFESSOR OF SOCIOLOGY AND ANTHROPOLOGY.

NELSON FITHIAN DAVIS, SC. D.,
PROFESSOR OF BIOLOGY.

EPHRAIM M. HEIM, PH. D.,
PROFESSOR OF ECONOMIC AND POLITICAL SCIENCE.

GUIDO CARL LEO RIEMER, A. M., PH. D.,
PROFESSOR OF MODERN LANGUAGES.

LLEWELLYN PHILLIPS, A. M.,
JOHN P. CROZER PROFESSOR OF RHETORIC AND ORATORY.

CALVIN AURAND HARE, A. M.,
PROFESSOR OF CHRISTIAN EVIDENCES AND LOGIC.

THOMAS ALPHEUS EDWARDS, A. M.,
PROFESSOR OF PEDAGOGY AND DEAN OF THE DEPARTMENT FOR WOMEN.

HENRY THOMAS COLESTOCK, A. M., PH. D.,
PROFESSOR OF HISTORY.

* ELYSEE AVIRAGNET, A. M., MUS. DOC.,
PROFESSOR OF THE ROMANCE LANGUAGES.

JOSEPH MEIXELL WOLFE, A. M.,
PROFESSOR OF MATHEMATICS AND SURVEYING.

CHARLES ARTHUR LINDEMANN, A. M.,
PROFESSOR OF APPLIED MATHEMATICS.

FRANK MORTON SIMPSON, SC. M.,
PROFESSOR OF PHYSICS AND MECHANICAL DRAWING.

*Deceased.

WALTER KREMER RHODES, A. M., E. E.,
PROFESSOR OF ELECTRO-TECHNICS.

FLOYD GEORGE BALLENTINE, PH. D.,
ASSISTANT PROFESSOR OF LATIN.

FRANK EUGENE BURPEE, A. M.,
ASSISTANT PROFESSOR OF MATHEMATICS.

BROMLEY SMITH, A. M.,
INSTRUCTOR IN ORATORY AND RHETORIC.

BENJAMIN W. GRIFFITH, A. M.,
INSTRUCTOR IN FRENCH.

LEO LAWRENCE ROCKWELL, A. M.,
INSTRUCTOR IN GERMAN.

JOHN CLYDE HOSTETTER, SC. B.,
INSTRUCTOR IN CHEMISTRY.

HAROLD MURRAY McCLURE, A. M.,
PRESIDENT JUDGE, SEVENTEENTH JUDICIAL DISTRICT,
LECTURER ON CONTRACTS AND PARTNERSHIP.

FREDERICK EVANS BOWER, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON BILLS AND NOTES AND AGENCY.

ALBERT WILLIAM JOHNSON, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON REAL AND PERSONAL PROPERTY.

WILLIAM LEISER, M. D.,
LECTURER ON PATHOLOGY.

BUCKNELL UNIVERSITY

WEBER L. GERHART, M. D.,
LECTURER ON ANATOMY.

CHARLES ALEXANDER GUNDY, M. D.,
LECTURER ON SURGERY.

WAYLAND HOYT, D. D., LL. D.,
LECTURER ON ORATORY.

WILLIAM EMMET MARTIN, A. M., L. H. D.,
LIBRARIAN.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR OF THE UNIVERSITY.

REV. CALVIN AURAND HARE, A. M.,
FINANCIAL SECRETARY.

FRANK EUGENE BURPEE, A. M.,
SUPERINTENDENT OF BUILDINGS AND GROUNDS.

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Secretary, HARVEY F. SMITH, M. D., Harrisburg.

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Secretary, CHARLES J. WOLFE, A. M., Lewisburg.

The Alumni Club of Sunbury.

President, GEORGE EDWARD DEPPEN, A. B., ESQ.

Secretary, CULLEN FRAZER SHIPMAN, A. B., ESQ.

NAMES OF STUDENTS.

I. GRADUATE STUDENTS.

NAME.	MAJOR SUBJECT.	RESIDENCE.
LYNDON ERNEST AYRES, A. B.,	<i>Language.</i>	Philadelphia
EDNA LORINE BACON, A. B.,	<i>Classics.</i>	Dividing Creek, N. J.
IRWIN ALBERT BARTHOLOMEW, SC. B.,	<i>Engineering.</i>	Weiser, Idaho
GENUS EBERT BARTLETT, A. B.,	<i>Hebrew.</i>	Chester
AMOS ETHAN BARTON, A. B.,	<i>Organic Science.</i>	Philadelphia
ELBINA LAVINIA BENDER, A. B.,	<i>Literature.</i>	Lewisburg
MARSHALL LEON BENN, SC. B.,	<i>Science.</i>	Coudersport
CLARENCE ANTHONY BERNHARD, A. B.,	<i>Jurisprudence.</i>	Hoyt
WALTER HENRY BERTIN, A. B.,	<i>Science.</i>	Jersey Shore
BENJAMIN FRANKLIN BIEBER, A. B.,	<i>Sociology.</i>	Center Hall
ELBERT LITTLE BLAKESLEE, PH. B.,	<i>Jurisprudence.</i>	Pompton Plains, N. J.
WINFIELD SCOTT BOOTH, A. B.,	<i>History.</i>	Philadelphia
MARY ISABEL BOWER, SC. B.,	<i>Library Economics.</i>	Ridley Park
WALTER BRINKER, SC. B.,	<i>Engineering.</i>	Mt. Pleasant
CHARLES ISAIAH BOYER, PH. B.,	<i>Engineering.</i>	Altoona
JOHN BENJAMIN BOYER,	<i>Mathematics.</i>	Milroy
CHARLES LUCAS BROMLEY, A. B.,	<i>Philosophy.</i>	Uniontown

NAME.	MAJOR SUBJECT.	RESIDENCE.
PETER GARFIELD COBER, A. B.,	<i>Jurisprudence.</i>	Connellsville
HAROLD NEWTON COLE, PH. B.,	<i>Organic Science.</i>	Cleveland, Ohio
ELVA SARAH COLEMAN, PH. B.,	<i>English Literature.</i>	Reynoldsville
CLARENCE BURNAP COMSTOCK, SC. B.,	<i>Jurisprudence.</i>	Lewisburg
EDWARD CARROLL CONDUCT, PH. B.,	<i>Greek.</i>	Newton Center, Mass.
JOHN BELMONT COOK, SC. B.	<i>Science.</i>	Factoryville
JOSEPH LEWIS COON, PH. B.,	<i>Chemistry.</i>	Orono, Maine
WALTER MADISON CORLL, A. B.,	<i>Literature.</i>	Hughesville
MARGARET PROTHEROE DAVIES, SC. B.,	<i>Literature.</i>	Scranton
RAYMOND JOHN DAVIES, A. B.,	<i>History.</i>	Williamsbridge, N. Y.
JOHN GROVER DEININGER, A. B.,	<i>Hebrew.</i>	Great Valley, N. Y.
HARVEY O. DIETRICH, A. B.,	<i>Pedagogy.</i>	Kutztown
LINN CLARKE DRAKE, A. B.,	<i>Greek.</i>	Chester
EMMA REBEKAH EBLING, A. B.,	<i>Language.</i>	Williamsport
WILLIAM FREDERIC ELSESSER, A. B.,	<i>Hebrew.</i>	Philadelphia
JOHN ROY FARR,	<i>History.</i>	Muncy
WALLACE WILMER FETZER, PH. B.,	<i>History.</i>	Sunbury
AMZI WILSON GEARY, PH. B.,	<i>History.</i>	Paterson, N. J.
MARIE MAUDE GODDARD, A. B.,	<i>Classics.</i>	New Orleans, La.
LYNN SUMNER GOODMAN, A. B.,	<i>Engineering.</i>	Loganton
MAURICE FRANK GOLDSMITH, A. B.,	<i>Jurisprudence.</i>	Carnegie

NAME.	MAJOR SUBJECT.	RESIDENCE.
DAVID ALBERT GREEN, SC. B., <i>Pedagogy</i>		Lock Haven
JOHN WALLACE GREEN, A. B., <i>Greek.</i>		Chester
HAVARD GRIFFITH, A. B., <i>Hebrew.</i>		Rochester, N. Y.
CARRIE JEANETTE HALFPENNY, SC. B., <i>Literature.</i>		Mansfield
HORACE LEROY HALL, A. B., <i>History.</i>		Sharon
RALPH WOMELSDORF HALLER, SC. B., <i>Modern Language.</i>		Reading
ROY HANNA, PH. B., <i>History.</i>		Mayaguez, Porto Rico
SPENSER TILLINGHAST HARRIS, A. M., <i>Mathematics.</i>		Lewisburg
GEORGE WILLIAM HAWK, SC. B., <i>Organic Science.</i>		Tower City
AMMON GROSS HESS, SC. B., <i>Organic Science.</i>		Philadelphia
CHESTER PENN HIGBY, A. B., <i>History.</i>		Fairmont, W. Va.
CHARLES MCCALLUM HOWELL, SC. B., <i>Engineering.</i>		Northumberland
THEODORE BLAND HOY, SC. B., <i>Jurisprudence.</i>		Montandon
CLARA MAUDE HUMMEL, SC. B., <i>Literature.</i>		Kratzerville
ELMER AZIMA HUMMEL, A. B., <i>Language.</i>		Kratzerville
LAURA MAE HUMMEL, SC. B., <i>Education.</i>		Kratzerville
WALTER JARRETT, SC. B., <i>Jurisprudence.</i>		Sunbury
WILLIAM LAWRENCE KALP, A. B., <i>Science.</i>		Mt. Pleasant
GEORGE WASHINGTON KERSCHNER, A. B., <i>History.</i>		Trevorton
ROYAL IVAN KNAPP, A. B., <i>Education.</i>		Union City
CHARLES FREDERICK KULP, PH. B., <i>Greek.</i>		Perkasie

NAME.	MAJOR SUBJECT.	RESIDENCE.
EDWARD CHARLES KUNKLE, A. B., <i>History.</i>		Scottdale
ONESIMUS GEORGE LANGFORD, A. B., <i>History.</i>		Sunbury
CURTIS COOK LESHER, SC. B., <i>Jurisprudence.</i>		Lewisburg
LENA RUTH LESHER, A. B., <i>History.</i>		Northumberland
MARY LILA LONG, A. B., <i>English Literature.</i>		Williamsport
IDA EVALINE LUCHSINGER, A. B., <i>History.</i>		West Pittston
ROBERT B. MACKEY, PH. B., <i>Organic Science.</i>		Waverly
JOSEPH CIPRIANO MACRO, A. B., <i>Jurisprudence.</i>		New York City
JOSEPH EDWARD MILLEN, PH. B., <i>Literature.</i>		Burgettstown
MARY MONTFORT MOLL, A. B., <i>English.</i>		Mahanoy City
FRANCES LEROY MCCAULEY, A. B., <i>New Testament Greek.</i>		Horseheads, N. Y.
ROBERT BRUCE MORRIS, A. B., <i>Philology.</i>		Kutztown
ANNA ELIZABETH NOAKER, PH. B., <i>German.</i>		Milton
WALTER LEROY NOLL, SC. B., <i>Pedagogy.</i>		Great Neck, L. I., N. Y.
HELENA MAE OLDS, PH. B., <i>German.</i>		Hollidaysburg
JAMES THEODORE PARK, SC. B., <i>History.</i>		Montandon
HOMER DERIAL PEASE, A. B., <i>Greek.</i>		Rochester, N. Y.
GILBERT SOMERS PEREZ, SC. B., <i>French Literature.</i>		Chicago, Ill.
WILLIAM WALLACE PORTSER, SC. B., <i>Railroad Engineering.</i>		Greensburg
THOMAS BENJAMIN POWELL, A. B., <i>Church History.</i>		Scranton
LEE RUSSELL RANCK, PH. B., <i>Sociology.</i>		Milton

NAME.	MAJOR SUBJECT.	RESIDENCE.
CHESTER BENJAMIN RENN, A. B., <i>History.</i>		South Williamsport
GEORGE ALANSON RIGGS, SC. B., <i>History.</i>		East McKeesport
DAVID HOWARD ROBBINS, A. B., <i>History.</i>		Phoenixville
FREDERICK W. ROBBINS, PH. B., <i>History.</i>		Bethlehem
EDWIN WARREN RUMSEY, A. B., <i>Greek.</i>		Chester
JOHN CALVIN SANDERS, A. B., <i>Hebrew.</i>		Vicksburg
EDWIN WILDE SAYLOR, A. B., <i>Hebrew.</i>		Philadelphia
OLIVE SCHILLINGER, A. B., <i>Literature.</i>		Martin's Ferry, Ohio
JACOB HARRY SCHUCH, C. E., <i>Engineering.</i>		Greenville
HENRY CLAUDE SEILER, SC. B., <i>Biology.</i>		Milton
HELEN AGATHA SELINGER, A. B., <i>Science.</i>		Titusville
ROBERT FRANCIS SHEPPARD, SC. B., <i>Jurisprudence.</i>		Cedarville, N. J.
FRANKLIN ISAAC SIGMUND, A. B., <i>Education.</i>		Ebensburg
LILA MABEL SILL, PH. B., <i>Literature.</i>		Kane
ARTHUR ANSON SMITH, PH. B., <i>Jurisprudence.</i>		Williamsport
ANTHONY STEINHILPER, A. B., <i>Latin.</i>		Wilmington, Del.
MARTHA JANE THOMAS, PH. B., <i>German.</i>		Frostburg, Md.
ALBERT OGDEN VORSE, SC. B., <i>Forestry.</i>		New Haven, Conn.
ELI SLIFER WALLS, SC. B., <i>Organic Science.</i>		Lewisburg
ABRAM PIERCE WALTZ, A. B., <i>Hebrew.</i>		Chester
ALVIN MONROE WEAVER, A. B., <i>Political Science.</i>		Williamsport

NAME.	MAJOR SUBJECT.	RESIDENCE.
ALFRED MATTHEWS WHITBY, A. B.,	<i>History.</i>	Rochester, N. Y.
SAMUEL GARBER WILLIAMS, PH. B.,	<i>Jurisprudence.</i>	Waynesboro
CLIFFORD VERNON WILLIAMSON, PH. B.,	<i>Pedagogy.</i>	Perth Amboy, N. J.
FRANK L. YOST, A. B.,	<i>History.</i>	Milton
JOHN ADAM YOUNG, PH. B.,	<i>Education.</i>	Lock Haven
EMMA PORTER YOUNGMAN, A. B.,	<i>Modern Language.</i>	Danville
IRWIN WELLINGTON ZIEGLER, SC. B.,	<i>History.</i>	Centre Hall
Graduate Students, 108.		

II. THE SENIOR CLASS.

CLASS OF 1909.

NAME.	RESIDENCE.	ROOM.
HENRY SNARE AFRICA,	<i>Huntingdon.</i>	University Avenue
CARLOS ALVAREZ,	<i>Quito, Ecuador.</i>	No. 11, West College
GEORGE FOSTER BAILETS,	<i>Sunbury.</i>	Montandon
HENRY FRANCIS BAILEY,	<i>Monongahela.</i>	No. 82, West College
WILLIAM SAMUEL BALDWIN,	<i>Jenningsville.</i>	No. 78, West College
VICTOR EMERSON PIOLLETTE BARKMAN,	<i>Clearville.</i>	No. 83, West College
KATHERINE BECKLEY,	<i>Lewisburg.</i>	St. George Street
AMY VANESSA BOLLINGER,	<i>Reynoldsville.</i>	Women's College
THOMAS STEWART BRACKEN,	<i>Lewisburg.</i>	No. 36, West College
MINNIE ELIZABETH BROBST,	<i>Sunbury.</i>	Women's College
JOHN WARD BROWN,	<i>Tunnelton, W. Va.</i>	No. 50 East College
ALFRED LEE CAREY,	<i>Glen Loch.</i>	No. 30, East College
ANNA ROBERTA CAREY,	<i>Glen Loch.</i>	Women's College
ANNE FRANCES CHAFFEE,	<i>Towanda.</i>	Women's College
MYRA MAGARGEE CHAFFEE,	<i>Towanda.</i>	Women's College
ANSLEY BAILEY CLAYPOOLE,	<i>Saltsburg.</i>	No. 89, West College
HELEN DITTING CLIBER,	<i>Holidaysburg.</i>	Women's College
M. ETHEL COCKBURN,	<i>Newberry.</i>	Women's College
EDITH ABBOTT CORLIES,	<i>Philadelphia.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
BELLE EMILY CRAIG,	<i>Philadelphia.</i>	South First Street
HAZEL MIRIAM CRAIG,	<i>Philadelphia.</i>	South First Street
ROY SIGNOR DAUBERT,	<i>Milton.</i>	Milton
CHARLES ELSON,	<i>Kane.</i>	No. 14, East Wing
MARY EVANS,	<i>Freeland.</i>	Women's College
NEWTON CROMWELL FETTER, JR.,	<i>Reading.</i>	No. 26, West Wing
HELGE FLORIN,	<i>Johnsonburg.</i>	St. George Street
ALICE ETHEL FOUST,	<i>Milton.</i>	Milton
CHARLES CARPENTER FRIES,	<i>Reading.</i>	No. 12, West Wing
FRANK HERMAN FRITZ,	<i>Bloomsburg.</i>	No. 43, West College
FRANK KEMP GIBSON,	<i>Minersville.</i>	No. 2, West Wing
HARRY ELMER GRESS,	<i>Lewisburg.</i>	South Sixth Street
JAMES ANDREW GROFF,	<i>Lewisburg.</i>	Lewisburg
EARL GUILFORD GUYER,	<i>Williamsport.</i>	No. 4, West Wing
MATTHEW EMERSON HAGGERTY,	<i>Nauvoo.</i>	No. 90, West College
EUNICE VIRGINIA HALL,	<i>Chinchilla.</i>	South Sixth Street
MILFORD SCOTT HALLMAN,	<i>Mapleshade.</i>	No. 12, West Wing
SAMUEL LEVI HANAWALT,	<i>Lewistown.</i>	West Market Street
JOSEPHINE ADELAIDE HANKINS,	<i>Uniontown.</i>	Women's College
CLARA ELEANOR HARMAN,	<i>Montoursville.</i>	Women's College
KATHERINE ELIZABETH HEINEN,	<i>Milton.</i>	Milton

NAME.	RESIDENCE.	ROOM.
JOHN AMMON HESS,	<i>Winfield.</i>	Winfield
CHARLES EDGAR HILBISH,	<i>Northumberland.</i>	Northumberland
CHARLOTTE HULLEY,	<i>Lewisburg.</i>	South Fourth Street
DONCASTER GEORGE HUMM,	<i>Punxsutawney.</i>	No. 67, West College
HAROLD L. HUNTER,	<i>Oil City.</i>	No. 95, West College
WILMER C. JOHNSON,	<i>Downingtown.</i>	No. 51, West College
LEON ELLISON JONES,	<i>Buffalo, N. Y.</i>	No. 79, West College
RACHEL ALLIE KANARR,	<i>Lancaster.</i>	Lewisburg
RILEY HARRISON KAUFFMAN,	<i>Shamokin Dam.</i>	Shamokin Dam
CHARLES WYANT KRAMER,	<i>Oil City.</i>	No. 86, West College
WILLIAM LEISER, 3D,	<i>Lewisburg.</i>	North Fourth Street
GIRTON KELLER LENHART,	<i>Lewisburg.</i>	Lewisburg
MARTHA D. LEOPOLD,	<i>Milton.</i>	Milton
CHARLES JOHN LEPPERD,	<i>Duncannon.</i>	No. 79, West College
CHARLES OSNER LONG,	<i>Sunbury.</i>	No. 24, East College
EDWIN IRLAND LAWSHE,	<i>Lewisburg.</i>	South Third Street
CHARLES RICHARD MALLERY,	<i>Juniata.</i>	No. 23, West Wing
JOHN HENRY MATHIAS,	<i>Philadelphia.</i>	No. 59, West College
ARTHUR EVRIL MCNINCH,	<i>Pittsburg.</i>	No. 35, East College
EDNA LILLIAN MEACHAM,	<i>Montandon.</i>	Montandon
HANNAH BEMIS MERVINE,	<i>Milton.</i>	Milton

NAME.	RESIDENCE.	ROOM.
MARY MATILDA MEYER,	<i>Rebersburg.</i>	Women's College
DAVID WALTER MOORE,	<i>Milton.</i>	Milton
GERTRUDE ADELLA MYERS,	<i>Williamsport.</i>	Lewisburg
CHARLES AUGUSTUS NYBERG,	<i>New York City.</i>	No. 25, West Wing
ALBERT WAFFLE OWENS,	<i>Lewisburg.</i>	South Sixth Street
GUY PAYNE,	<i>Titusville.</i>	Lewisburg
ROY HILL PHILSON,	<i>Berlin.</i>	No. 81, West College
ALBERT THEODORE POFFENBERGER, JR.,	<i>Sunbury.</i>	No. 45, West College
WILLIAM HARRY POSTEN,	<i>Navesink, N. J.</i>	No. 16, East Wing
ALLAN GERALD RITTER,	<i>South Williamsport.</i>	No. 90, West College
STANLEY HERBERT ROLFE,	<i>Nanticoke.</i>	No. 60, West College
CHARLES STILWELL ROUSH,	<i>Lewisburg.</i>	Lewisburg
KLEINE HARLAN ROYER,	<i>Rebersburg.</i>	No. 17, West College
LEONORA MAE SHAMP,	<i>Lewisburg.</i>	St. Catherine Street
IDA MABEL SLOUT,	<i>Newberry.</i>	Women's College
STANTON REINHART SMITH,	<i>Stroudsburg.</i>	No. 17 East Wing
GERTRUDE LILLIAN TURNER,	<i>Philadelphia.</i>	Women's College
EUGENE VAN WHY,	<i>Stroudsburg.</i>	No. 17, East Wing
MYRTLE HARGRAVE WALKINSHAW,	<i>Greensburg.</i>	Women's College
HARRY MORRISS WALTER,	<i>Harrisburg.</i>	South Seventh Street
SARA ELLEN WALTERS,	<i>Lewisburg.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
NALA DAMAYANTI WEBB,	<i>Rutherford, N. J.</i>	Women's College
AMELIA MARGARET WENSEL,	<i>Lewisburg.</i>	South Sixth Street
GEORGE NORMAN WILKINSON,	<i>Williamsport.</i>	No. 85, West College
WARREN TYSON WILSON,	<i>Du Bois.</i>	No. 39, East College
RALPH GEORGE WINEGARDNER,	<i>Muncy.</i>	St. George Street
MARY ELIZABETH YOUNG,	<i>Lewisburg.</i>	South Seventh Street
HEBER WILKINSON YOUNGKEN,	<i>Quakertown.</i>	No. 5, East Wing

Seniors, 89.

IV. THE JUNIOR CLASS.

CLASS OF 1910.

NAME.	RESIDENCE.	ROOM.
PAUL JAMES ABRAHAM,	<i>Smithfield.</i>	No. 14, East College
KATHARINE ETHEL BAILEY,	<i>Wellsboro.</i>	Women's College
JOHN CHARLES BANK,	<i>Newark, N. J.</i>	No. 57, East College
CONRAD LESLIE BASKINS,	<i>North Platte, Neb.</i>	No. 19, West College
FLOYD DAYTON BEEMER,	<i>Clark's Summit.</i>	No. 53, West College
JOHN RANCK BELL,	<i>Lewisburg.</i>	No. 52, East College
PORTER LLOYD BENSON,	<i>Waterford.</i>	No. 15, West Wing
HARRIET KREMER BOWER,	<i>Lewisburg.</i>	South Sixth Street
EARL HARLAMAN BOWMAN,	<i>Allentown.</i>	No. 23, West College
FREDERIC WILLIAM BREIMEIER,	<i>Trevorton.</i>	No. 47, West College
JOSEPHINE BROWN,	<i>Allenwood.</i>	Women's College
CAMERON A. BUTT,	<i>New Midway, Md.</i>	No. 16, West Wing
GEORGE FRANK CASE,	<i>Troy.</i>	No. 52, West College
MILDRED BLACKWELL CATHERS,	<i>Flemington, N. J.</i>	Women's College
JANE CHAPMAN,	<i>Pittsburg.</i>	Women's College
JAMES FRANCIS CLARKE,	<i>Kane.</i>	No. 9, East Wing
JOSEPH LESLIE CONOVER,	<i>Millville, N. J.</i>	No. 3, East Wing
CLYDE WILLIAM CRANMER,	<i>South Williamsport.</i>	No. 24, East Wing
WINNIE VIOLA DICKSON,	<i>Akron, Ohio.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
GEORGE PARSON DRUCKEMILLER,	<i>Sunbury.</i>	No. 36, East College
FRANK SAUNDERS EAKELEY,	<i>Newark, N. J.</i>	No. 11, West Wing
ISAAC NEWTON EARLE, JR.,	<i>Brookville.</i>	No. 28, East Wing
C. PARK EDMUNDS,	<i>Mill Village.</i>	No. 15, West Wing
JOSEPH EARLE EDWARDS,	<i>Wilmington, Del.</i>	No. 29, East Wing
GILBERT HAVEN FAGLEY,	<i>Mt. Carmel.</i>	No. 46, West College
GEORGE CAMPBELL FETTER,	<i>Reading.</i>	No. 26, West Wing
ROY AUSTIN FETTERMAN,	<i>Centralia.</i>	No. 2, East Wing
WILLIAM HAYES GATEHOUSE,	<i>Lewisburg.</i>	North Second Street
BERTHA LAYCOCK GEIS,	<i>Belvidere, N. J.</i>	Women's College
MABEL CORNELIA GIBSON,	<i>Ulysses.</i>	Lewisburg
MACARTHUR GORTON,	<i>Smithport.</i>	No. 58, West College
JOHN WILLIAMS GRANDFIELD,	<i>Clarksboro, N. J.</i>	No. 2, West Wing
RAYMOND FISHER HAIN,	<i>Bernville.</i>	No. 23, East College
JOHN WESLEY HALLIWELL,	<i>Kane.</i>	No. 62, West College
HELEN HARE,	<i>Lewisburg.</i>	University Avenue
EDWARD STANLEY HARTSHORN,	<i>Perth Amboy, N. J.</i>	No. 75, West College
HOMER BLAINE HEDGE,	<i>Scenery Hill.</i>	No. 15, East College
DAISY VALLEY HEGARTY,	<i>Madera.</i>	Women's College
PHAREZ HUNTZINGER HERTZOG,	<i>Ephrata.</i>	No. 44, East College
STELLA REBECCA HOUGHTON,	<i>Lewisburg.</i>	South Seventh Street

NAME.	RESIDENCE.	ROOM.
FRANK MURRAY JENNER,	<i>Troy.</i>	No. 11, East Wing
MABEL ELIZABETH JOHNSON,	<i>Mt. Carmel.</i>	Women's College
ROBERT LYNESS JONES,	<i>Franklin.</i>	No. 22, West College
HOMER DAVID KRESGE,	<i>Scranton.</i>	No. 2, West Wing
EMILY ANGELINE LANE,	<i>Lane's Mill.</i>	Women's College
GILBERT HARDING LYTE,	<i>Millersville.</i>	No. 29, West College
GEORGE STANLEY METZGER,	<i>Montgomery.</i>	St. George Street
ROY MIKLE,	<i>Harrisburg.</i>	No. 63, West College
GEORGE FREDERICK MITCH,	<i>Philadelphia.</i>	No. 7, East College
MICHAEL J. McDONOUGH,	<i>Westmoor.</i>	No. 3, East Wing
SARAH MCFARLAND,	<i>Watsonstown.</i>	Watsonstown
JENNIE FREDA MOHRING,	<i>Lancaster.</i>	Women's College
GEORGE HOWARD NORTHROP,	<i>Monroeton.</i>	No. 11, East Wing
CHARLES O'BRIEN,	<i>Nanticoke.</i>	No. 65, West College
FRANK HALFPENNY PAINTER,	<i>Muncy.</i>	St. George Street
WEAVER WEDDELL PANGBURN,	<i>Elizabeth.</i>	No. 68, West College
AMY JULIA PARK,	<i>Montandon.</i>	Montandon
DAVID JESSE PARK,	<i>Montandon.</i>	Montandon
RUBY GEORGIA PIERSON,	<i>Hampton, Va.</i>	Women's College
ALICE PLATT,	<i>New Haven, Conn.</i>	Women's College
NEWTON RITNER QUINTON,	<i>Ariel.</i>	No. 11, West Wing

NAME.	RESIDENCE.	ROOM.
PHILIP A. RANDLE,	<i>Philadelphia.</i>	No. 9, West College
SARAH LOWRY RAUP,	<i>Milton.</i>	Milton
SARAH MATILDA RAY,	<i>Pittsburg.</i>	Women's College
EDWIN C. REBER,	<i>Vineland, N. J.</i>	No. 92, West College
HUGH ELLIS ROSER,	<i>Woodsboro, Md.</i>	No. 25, East Wing
ROBERT JACOB SAYLOR,	<i>Woodsboro, Md.</i>	No. 16, West Wing
GEORGE BARTLEY SCHROYER,	<i>Lancaster.</i>	No. 26, West College
WILLIAM JOSEPH SCHULTZ,	<i>Lewisburg.</i>	South Fifth Street
CLARA LENORA SHELLHAMER,	<i>New Ringgold.</i>	Women's College
ALEXANDER SHERWOOD,	<i>Waterford.</i>	No. 10, West Wing
CHARLES NORMAN SILMAN,	<i>St. Marys.</i>	No. 49, West College
PAUL LEWIS SILVIUS,	<i>Sunbury.</i>	No. 20, East College
MARY SLAWSON,	<i>Tunkhannock.</i>	Women's College
EUGENE PAUL SMITH,	<i>Bloomsburg.</i>	No. 24, West Wing
WESLEY LEE SPROUT,	<i>Picture Rocks.</i>	No. 5, East College
ELIZABETH STAGE,	<i>Clearfield.</i>	Women's College
FLORENCE VIRGINIA STAUFFER,	<i>Millville, N. J.</i>	Women's College
HOPE BIEBER STERNER,	<i>Dewart.</i>	No. 16, West Wing
ALBERT KNOX STOCKEBRAND,	<i>Lititz.</i>	No. 21, East Wing
GEORGE THORNLEY STREET, JR.,	<i>Pittsburg.</i>	No. 34, East College
ELSIE MAE TEED,	<i>Oregon Hill.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
CHESTER JOSEPH TERRILL,	<i>Peter's Creek.</i>	No. 48, West College
LOUIS JAMES VELTE,	<i>Philadelphia.</i>	No. 26, East Wing
KATHALYN VONHUTON VOORHIS,	<i>Paterson, N. J.</i>	Women's College
EMANUEL WARMKESSEL,	<i>Landingville.</i>	No. 22, East Wing
GRACE ETHEL WATKINS,	<i>Scranton.</i>	Women's College
EVA EUNICE WEDDLE,	<i>West Newton.</i>	Women's College
GEORGIA LUCETTA WEDDLE,	<i>West Newton.</i>	Women's College
MAX CONRAD WIAANT,	<i>Connellsville.</i>	No. 17, East College
VIOLA EDNA WILHELM,	<i>Philadelphia.</i>	Women's College
ELMER BILLINGFELT WOODS,	<i>Reading.</i>	No. 1, East Wing
CORA MAY WRIGHT,	<i>Lewisburg.</i>	South Fifth Street
CHARLES E. YOUNG,	<i>Lewisburg.</i>	No. 48, East College
* DANIEL HARVEY ZARTMAN,	<i>Shamokin.</i>	No. 2, East Wing
	Juniors, 94.	

*Deceased.

THE SOPHOMORE CLASS.

CLASS OF 1911.

NAME.	RESIDENCE.	ROOM.
ELMER MATLOCK APP,	<i>Haddonfield, N. J.</i>	No. 17, West Wing
JOHN HERBERT ARNOLD,	<i>Houtzdale.</i>	No. 27, West Wing
WILLIAM NEIL BAKER,	<i>Lewisburg.</i>	Market Street
HORACE RICHARD BARNES,	<i>Norristown.</i>	No. 55, East College
HARRY STEVENS BASTIAN,	<i>Montgomery.</i>	No. 10, West Wing
ARTHUR THOMAS BAUMER,	<i>New Columbia.</i>	New Columbia
JACOB KREIDER BOWMAN,	<i>Campbelltown.</i>	No. 53 East College
FLEMING CLAUDE BOWER,	<i>Lewisburg.</i>	South Sixth Street
KATHARINE VIRGINIA BRONSON,	<i>Salem, N. J.</i>	Women's College
GROVER NEVIN BROWN,	<i>Friedensburg.</i>	No. 8, East College
CHARLES NORMAN BRUBAKER,	<i>Liverpool.</i>	No. 19, East College
KATHARINE GRAY CARPENTER,	<i>Woodbury, N. J.</i>	Women's College
MARGARET CHAPPELL,	<i>Scranton.</i>	Women's College
NORRIS IRA CRAIG,	<i>Lewisburg.</i>	Lewisburg
GRACE BUCHANAN COBB,	<i>Coudersport.</i>	Women's College
VERA ZULEIKA COBER,	<i>San Juan, P. R.</i>	Women's College
HARRY RANKIN COULSON,	<i>Donora.</i>	No. 21, West College
NELSON KENNEDY CROSSMAN,	<i>Whites Valley.</i>	No. 18, West Wing
JOSEPH LESLIE CROWELL,	<i>Perth Amboy, N. J.</i>	No. 9, West Wing

NAME.	RESIDENCE.	ROOM.
HELEN WINIFRED CURE,	<i>Jermyn.</i>	Women's College
MARGARET CURTIS,	<i>Montrose.</i>	Women's College
RAYMOND CALEB DECKER,	<i>Kimbles.</i>	No. 19, West Wing
WOODS FREDERICK DERR,	<i>Watsonstown.</i>	No. 66, West College
WALTER WILLIAM DUFF,	<i>Edenburg.</i>	No. 52, West College
ELDREDGE DALE DURELL,	<i>Reading.</i>	No. 20, East Wing
ARTHUR CLAY FAIRCHILD,	<i>Towanda.</i>	No. 13, West Wing
ALLAN MANCHESTER FITCH,	<i>Factoryville.</i>	No. 9, East College
JENNIE HAZEL FOX,	<i>Loyalsock.</i>	Women's College
BURGESS ALLEN GIBSON,	<i>Washingtonville.</i>	No. 2, East College
MERNA JULIA GIFFIN,	<i>Port Richmond, N. Y.</i>	Women's College
MATILDA YOUNG GOLDING,	<i>Lawrenceville, N. J.</i>	Women's College
JOHN WILLIAM GREEN,	<i>Saltsburg.</i>	No. 49, East College
FRANK THOMAS HAMIL,	<i>New Florence.</i>	No. 20, East Wing
EDITH HARPEL,	<i>Mt. Carmel.</i>	Women's College
LESTER ABRAHAM HARRIS,	<i>Lewisburg.</i>	Market Street
CHARLES HUNTER HEACOCK,	<i>Turbotville.</i>	No. 18, East College
BARON FARLEY HILTON,	<i>Oil City.</i>	No. 72, West College
HENRY LUCIEN HODGE,	<i>Olyphant.</i>	No. 15, East Wing
EDWARD LEISERING HOWELL,	<i>Northumberland.</i>	No. 70, West College
ANDREW JOHN HUSTON,	<i>Tioga Center, N. Y.</i>	No. 61, West College

NAME.	RESIDENCE.	ROOM.
MORRIS VICTOR HUYETTE,	<i>Wernersville.</i>	No. 26, East College
MARY JAMESON,	<i>Danville.</i>	Women's College
LEROY JOHNSON,	<i>Lewisburg.</i>	Lewisburg
ELIZABETH S. KATES,	<i>Millville, N. J.</i>	Women's College
GEORGE OREN KEISER,	<i>West Milton.</i>	West Milton
JOHN RAY KEISER,	<i>West Milton.</i>	West Milton
RAYMOND MINER KENDALL,	<i>Waterford.</i>	No. 9, West Wing
JOSEPH HENRY KERR, JR.,	<i>Uniontown.</i>	No. 76, West College
JULIA ALLEN KREMER,	<i>Watsonstown.</i>	Watsonstown
STANLEY LAWRENCE KRESKY,	<i>Scranton.</i>	No. 91, West College
JOHN ROBERT KURTZ,	<i>Myerstown.</i>	No. 31, East College
WALTER SCOTT LEACH,	<i>New Bethlehem.</i>	No. 41, West College
JOHN VANDLING LEIGHOU,	<i>Northumberland.</i>	No. 94, West College
WILLIAM ANDERSON LESHER,	<i>Benton.</i>	No. 93, West College
FREDERICK BRYTON LITTLE,	<i>Uniontown.</i>	No. 4, West Wing
HERBERT SPENCER LLOYD,	<i>Wilkes-Barre.</i>	No. 12, East Wing
ROY ALLEN LONG,	<i>Northumberland.</i>	No. 24, East College
CHARLES LOSE, JR.,	<i>Williamsport.</i>	No. 34, West College
CHARLES LOVELAND, JR.,	<i>Hammonton, N. J.</i>	No. 37, West College
ROBERT LOWRY,	<i>Scranton.</i>	No. 33, West College
WALTER HERTZ MANN,	<i>Sunbury.</i>	Sunbury

NAME.	RESIDENCE.	ROOM.
WENDELL MARKLE,	<i>Uniontown.</i>	No. 76, West College
ARTHUR ORLO MARSH,	<i>Titusville.</i>	No. 71, West College
SARA E. MEYER,	<i>Rebersburg.</i>	Women's College
RAY EDWARD MILLER,	<i>Wiconisco.</i>	No. 77, East Wing
BLAINE JAMES MORGAN,	<i>Robertsdale.</i>	No. 13, West Wing
FRED MCALLISTER,,	<i>West Pittston.</i>	No. 9, East Wing
NORMAN BLAIR MCANULTY,	<i>Barnesboro.</i>	No. 53, West College
EVELYN HOPE MCCASKIE,	<i>East Orange, N. J.</i>	Women's College
HELEN BROWN MCCLURE,	<i>Watsonstown.</i>	Watsonstown
WILLIAM MCCULLEN,	<i>Philadelphia.</i>	No. 22, West Wing
LEROY MACFARLAND,	<i>Trenton, N. J.</i>	No. 21, East College
LAURA ELLEN MCGANN,	<i>Lewisburg.</i>	North Third Street
FRANK CLARENCE MCNAIR,	<i>Philadelphia.</i>	No. 11, East College
HAROLD MCCLURE NEFF,	<i>Sunbury.</i>	No. 25, East College
DANIEL HENRY NESTER,	<i>New Ringgold.</i>	No. 32, East Wing
VIOLA D. NISBIT,	<i>West Pittston.</i>	Women's College
NORMAN GOULD OLIVER,	<i>Burlington, N. J.</i>	No. 12, East College
JOHN WATSON PEOPLES,	<i>Jersey Shore.</i>	No. 6, West College
CLARENCE KEISER PUGH,	<i>Pottsville.</i>	No. 17, West Wing
GRETCHEN ANNETTE RADACK,	<i>Titusville.</i>	Women's College
ELEANOR GRAHAM RAUP,	<i>Milton.</i>	Milton

NAME.	RESIDENCE.	ROOM.
DORA MEACHAM RAYMOND,	<i>Coudersport.</i>	Women's College
WILLIAM FRANKLIN REDCAY,	<i>Reading.</i>	No. 10, East College
WALTER DANIEL RHOADES,	<i>Allentown.</i>	No. 58, East College
NICHOLAS WHITEMAN ROSENBERG,	<i>Uniontown.</i>	No. 60, West College
JOHN ORAM LYTE ROSER,	<i>Woodsboro, Md.</i>	No. 25, East Wing
KATHBYN MARIE RYAN,	<i>Asbury Park, N. J.</i>	Women's College
EDGAR ANDREW SABLE,	<i>Nanticoke.</i>	No. 27, West Wing
RUTH SUMMERS SAFFORD,	<i>Montrose.</i>	Women's College
HELEN ANNA CLARE SCOTT,	<i>Scranton.</i>	Women's College
GEORGE PATRICK SHIELDS,	<i>Oil City.</i>	No. 73, West College
JAMES WESLEY SHIPE,	<i>Sunbury.</i>	No. 22, East College
FRANCIS FINLETTER SHOEMAKER,	<i>La Porte.</i>	No. 4, East College
JOHN GURNEY SHOLL, JR.,	<i>Burlington, N. J.</i>	No. 6, East College
LYMAN CYRUS SHREVE,	<i>Erie.</i>	No. 87, West College
ROBERT DEAN SISSON,	<i>Factoryville.</i>	No. 38, East College
FRED WILLIAM SMALL,	<i>Hammonton, N. J.</i>	No. 16, East Wing
HARRY LEE SMITH,	<i>Lewisburg.</i>	Lewisburg
EDGAR AMBROSE SNYDER,	<i>Weaversville.</i>	No. 32, East College
PAUL CLINTON SNYDER,	<i>Numidia.</i>	No. 5, East Wing
JESSE KIMMEL SPURGEON,	<i>Uniontown.</i>	No. 13, East Wing
ANNE STEINFIRST,	<i>Titusville.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
STUART WILLIAMS SWEET,	<i>Utica, N. Y.</i>	St. George Street
BENJAMIN RUSSELL THATCHER,	<i>Unionville.</i>	No. 60, East College
WILL S. TORBERT,	<i>Lock Haven.</i>	No. 12, West College
JOHN WEBSTER TRAUGER,	<i>Revere.</i>	No. 22, East Wing
JONAS TUMAN,	<i>Atlantic Highlands, N. J.</i>	No. 57, West College
JAMES ARTHUR TYSON,	<i>Montgomery.</i>	St. George Street
JOSE ANDRES VILLALON,	<i>Puerto Plata, W. I.</i>	No. 30, West College
JOHN HERBERT WAITE,	<i>Lock Haven.</i>	No. 59, East College
HYMAN MAYOR WEINSTEIN,	<i>Kersey.</i>	No. 50, West College
VERNA AMANDA WHITAKER,	<i>Millville, N. J.</i>	Women's College
HOWARD MORGAN WILLIAMS,	<i>Uniontown.</i>	No. 42, West College
WESLEY AMBROSE WOLFFE,	<i>Kittanning.</i>	No. 21, East Wing
EDWARD REIMING WOOD,	<i>Jersey Shore.</i>	No. 25, West College

Sophomores, 116.

THE FRESHMAN CLASS.

CLASS OF 1912.

NAME.	RESIDENCE.	ROOM.
PAUL SHEARER ALTHOUSE,	<i>Reading.</i>	No. 44, West College
CHARLES PETER ANDERSON,	<i>Erie.</i>	No. 88, West College
JOHN MAITLAND ASKEY,	<i>Oil City.</i>	No. 86, West College
MARC LUTHER BALDWIN,	<i>League, W. Va.</i>	No. 32, West Wing
FREDERICK RIGBY BARNES, JR.,	<i>Norristown.</i>	No. 56, East College
EARL RUDOLPH BARTHOLOMEW,	<i>Lewisburg.</i>	Lewisburg
WINFIELD SCOTT BENSON,	<i>Susquehanna.</i>	No. 15, West College
NELLIE RUTH BERIE,	<i>Lewisburg.</i>	Lewisburg, R. F. D.
CLARENCE BLAKE BREWER,	<i>Susquehanna.</i>	No. 15, West College
ALBERTA LILLIAN BRONSON,	<i>Girardville.</i>	Women's College
ADA ETHEL BROOKS,	<i>Wellsboro.</i>	Women's College
WILLIAM ANDREW BURTNETT,	<i>Coal Centre.</i>	No. 8, West College
MAZE RITTER CALLAHAN,	<i>Montoursville.</i>	Women's College
RALPH EMERSON CLOYD,	<i>Orbisonia.</i>	No. 21, West Wing
FLORENCE MAY CLUM,	<i>Scranton.</i>	Women's College
LLOYD LANGDON COIL,	<i>Hopbottom.</i>	No. 4, East Wing
ALEXANDER CLEVELAND CONNER,	<i>Pittsburg.</i>	No. 9, East Wing
JOHN RAY CONOVER,	<i>Millville, N. J.</i>	No. 3, East Wing
GEORGE WATMORE CORREY, JR.,	<i>Milton.</i>	Milton

NAME.	RESIDENCE.	ROOM.
ELWOOD HARRIS COURTER,	<i>Basking Ridge, N. J.</i>	No. 8, East Wing
SYLVAN GROVER COX,	<i>Trenton, N. J.</i>	No. 54, West College
LEON MOYER CRANDELL,	<i>Towanda.</i>	No. 31, East Wing
HARRY ALBERT DAGGETT,	<i>Milton.</i>	Milton
RALPH FREDERICK DAVENPORT,	<i>Plymouth.</i>	No. 27, East Wing
STANLEY POWELL DAVIES,	<i>Conshocken.</i>	No. 19, East Wing
FRANK GARFIELD DAVIS,	<i>Warsaw.</i>	No. 14, West Wing
OLIVER SAMUEL DELANCEY,	<i>Blairsville,</i>	No. 6, East Wing
NORA ELIZABETH DODSON,	<i>Hazleton.</i>	Women's College
CHARLES BRYANT DRAKE,	<i>Old Forge.</i>	No. 5, West Wing
CHARLES EDGAR DREHER,	<i>Paxinos.</i>	No. 38, West College
EDWARD PATCHIN DUFTON,	<i>Clearfield.</i>	No. 10, West College
WALTER HERBERT EDWARDS,	<i>Wilmington, Del.</i>	No. 29, East Wing
WALTER SAMUEL EISENMENGER,	<i>Warrensville.</i>	No. 32, East Wing
HARRY BENNETT ENGLISH,	<i>Wyoming.</i>	No. 4, East Wing
MYRON EUGENE FAIRCHILD,	<i>Montandon.</i>	Montandon
JAY HUDSON FLECKENSTINE,	<i>Milton.</i>	Milton
FRANK VANDERHERCHEN FRAMBES,	<i>Tuckahoe, N. J.</i>	No. 30, East College
DUWARD BELMONT FRAMPTON,	<i>Transfer.</i>	No. 78, West College
JULIUS FRANKEL,	<i>West Pittston.</i>	No. 3, West Wing
VERA MILDRED FROST,	<i>Brookville.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
ARTHUR RICKENBAUGH GERHART,	Lewisburg.	Lewisburg
RICHARD DRAPER GETTYS,	Homestead.	No. 10, East Wing
AUGUSTUS WILLIAM GLEASON,	Norwood, Ohio.	No. 32, West College
WILLIAM ALFRED GOEHRING,	Zelienople.	No. 25, East Wing
FRANKLIN OSCAR GORSUCH,	Finksburg, Md.	No. 37, East College
BENJAMIN LLOYD GRIER,	Watsonstown.	Watsonstown
FRANKLIN JOSEPH GRONDE,	Cogan Valley.	No. 5, West Wing
ELMER THADDEUS HAINES,	Juniata.	No. 21, East Wing
LAURA ADDA HAMILL,	Norristown.	Women's College
CLINTON THORNTON HANKS,	Trenton, N. J.	No. 18, West College
CAREY WATROUS HARDING,	Clarion.	No. 31, West Wing
COLEMAN JOHN HARRIS,	Lewisburg.	University Avenue
JAMES PARDON HARRIS,	Lewisburg.	University Avenue
WILLIAM GARVER HARRISON,	Tarentum.	No. 29, West Wing
JAMES EUGENE HART,	West Pittston.	No. 3, West Wing
FRANK RAHN HEAN,	Harrisburg.	No. 40, West College
JOSEPH NEWCOM HENDERSON,	Brookville.	No. 40, East College
LAWRENCE AMBROSE HENDERSON,	Montgomery.	Montgomery
EARL EDWARD HINMAN,	Monroeton.	No. 31, East Wing
RUSSELL CONWELL HOFFMAN,	Cheltenham.	No. 19, West Wing
LEWIS CASS LEIDY HOLBY,	New Rochelle.	No. 83, West College

NAME.	RESIDENCE.	ROOM.
DALE DAVIS HOLLENBAUGH,	<i>Lewisburg.</i>	South Fourth Street
FRANCIS HARPER HUTCHINSON,	<i>Sunbury.</i>	No. 5, West College
FREDERICK IGLER,	<i>Scranton.</i>	No. 27, East College
EMMA ELIZABETH KEISER,	<i>Mt. Carmel.</i>	Women's College
PERCY POWERS KINNAMAN,	<i>Washington, N. J.</i>	No. 20, West Wing
MABEL GRACE KNAPP,	<i>Clarion.</i>	South Sixth Street
FREDERICK LANGE, JR.,	<i>Audubon, N. J.</i>	No. 12, East Wing
FRANK WILLIAM LANGFORD,	<i>Sunbury.</i>	No. 27, East Wing
MARY ELIZABETH LEONARD,	<i>Hazleton.</i>	Women's College
HELEN LEVEGOOD,	<i>Jersey Shore.</i>	Women's College
LYMAN LLEWELLYN LISTER,	<i>Trenton, N. J.</i>	No. 28, West Wing
JAMES CARADOE LLEWELLYN,	<i>Nanticoke.</i>	No. 82, West College
LULU VIOLET LONG,	<i>Shippensburg.</i>	Women's College
WENDELL WILLIAM MARKLE,	<i>Uniontown.</i>	No. 76, West College
LEON THOMAS MART,	<i>Hammonton, N. J.</i>	No. 16, East Wing
ROBERT WILLIAM MEYER,	<i>Rebersburg.</i>	No. 28, West Wing
WILLIAM HENRY MILLER,	<i>Greenburr.</i>	No. 15, East Wing
A. CLAUDE MOORE,	<i>Oil City.</i>	No. 29, East College
RUDOLPH MUNK,	<i>Connellsville.</i>	No. 23½, West Wing
HAROLD WILLIAM MUSSER,	<i>Lewisburg.</i>	South Third Street
KENNETH ROE McCLAREN,	<i>Saltsburg.</i>	No. 47, East College

NAME.	RESIDENCE.	ROOM.
DAVID A. MCNEAL,	<i>Canton.</i>	No. 20, West Wing
ELIZABETH NEVINS,	<i>Philadelphia.</i>	Women's College
MERTON MILER OGDEN,	<i>Leonta, N. Y.</i>	No. 6, East Wing
KATHRYN EVA OLDT,	<i>Lewisburg.</i>	Women's College
WILLIAM LLEWELLYN OWENS,	<i>Pottsville.</i>	No. 22, West Wing
EDWARD ROY PARKE,	<i>Troy.</i>	No. 11, East Wing
JOHN COPE PASTOR,	<i>Harrisburg.</i>	No. 32½, West Wing
TILMAN HARRISON PAUL,	<i>Milton.</i>	Milton
LEROY STEPHENS PORTER,	<i>Tarentum.</i>	No. 7, West College
GEORGE FRANCIS REITER,	<i>Muncy.</i>	No. 15, East Wing
PAUL LEON RIEHL,	<i>Lewisburg.</i>	Market Street
EVA MAY RITTENHOUSE,	<i>Granville.</i>	Women's College
FREDERICK VALENTINE ROCKEY,	<i>Lebanon.</i>	No. 40, West College
GRACE ROSSITER,	<i>Sunbury.</i>	Women's College
DAVIS CLIFFORD RUTH,	<i>Malvern.</i>	No. 31, West Wing
HELEN LAURA RUTH,	<i>Hanover.</i>	Women's College
NORMAN WILDWOOD RYAN,	<i>Wildwood, N. J.</i>	No. 51, West College
ALICE PERRAULT SCOTT,	<i>Milton.</i>	Milton
CECIL TAGGART SMITH,	<i>Dunbar.</i>	No. 4, West College
SUSAN CAROLINE SNYDER,	<i>Allentown.</i>	Women's College
LAWRENCE EMERSON SPROUT,	<i>Picture Rocks.</i>	No. 3, East College

NAME.	RESIDENCE.	ROOM.
HOWARD WARNER STARKWEATHER,	<i>Carbondale.</i>	No. 30, East Wing
EDGAR VERNON STEELL,	<i>Crenshaw.</i>	No. 24, West College
ROBERT AUGUSTUS STOUGHTON,	<i>Lewisburg.</i>	Market Street
RUBY VANMINKA STUCK,	<i>Tower City.</i>	Women's College
HARRISON SCHUYLER SWEET,	<i>Utica, N. Y.</i>	No. 41, East College
WILLIAM GLENN TEGTMEIER,	<i>Conshohocken.</i>	No. 19, East Wing
JESSE ROY TYSON,	<i>Norristown.</i>	No. 55, West College
NED FOLLMER WAGNER,	<i>Watsontown.</i>	No. 74, West College
HELEN BOTTORF WAITE,	<i>Lock Haven.</i>	Women's College
RALPH SOMER WALTER,	<i>Harrisburg.</i>	No. 2, East Wing
HARRY REID WALTMAN,	<i>Millville, N. J.</i>	No. 23, East Wing
ARTHUR DAVID WALTZ,	<i>Hepburnville.</i>	No. 18, West Wing
HOWARD EDWARD WEISS,	<i>Canton, Ohio.</i>	No. 21, West College
HARRISON WESTOVER,	<i>Barnesboro.</i>	No. 14, West Wing
VIOLET LOUISE ELEANOR WETTERAU,	<i>Hazleton.</i>	Women's College
SAMUEL LEIDY WILSON,	<i>Philipsburg.</i>	No. 8, East Wing
DANIEL MAYNARD WISE,	<i>South Williamsport.</i>	No. 24, East Wing
DORRANCE DANA ZINN,	<i>Philippi, W. Va.</i>	No. 32, West Wing
	Freshmen, 121.	

NON-MATRICULATES.

NAME.	RESIDENCE.	ROOM.
SAMUEL BLAIR, JR.,	<i>Albuquerque, New Mexico.</i>	No. 27, West College
JAMES CLARKE,	<i>Houtzdale.</i>	Lewisburg
RALPH EVERITT,	<i>Watsonstown.</i>	Watsonstown
HOWARD FARQUHAR,	<i>West Brownsville.</i>	No. 33, East College
ORIGEN A. HARVEY,	<i>Mill Hall.</i>	No. 43, East College
CHARLES D. HASSON,	<i>Windber.</i>	No. 54, East College
MINA KAUFFMAN,	<i>Milton.</i>	Milton
HAROLD CREIGHTON KIEFFER,	<i>Milton.</i>	Milton
EDWARD A. MANNING,	<i>Binghamton, N. Y.</i>	No. 30, West College
ROBERT RAY MCCOMBS,	<i>McClellandtown.</i>	No. 56, West College
WILLIAM A. OWENS,	<i>Braddock.</i>	No. 29, West Wing
AMELIA RICHAR,	<i>Sayre.</i>	Women's College
ADAH RITTENHOUSE,	<i>Scottsdale.</i>	Women's College
FREDERIC L. SHOOP,	<i>Shamokin.</i>	No. 65, West College
VICTOR SCHMID,	<i>Philadelphia.</i>	No. 6, West Wing
ANNA KATHARINE SMITH,	<i>Milton.</i>	Milton

NAME.	RESIDENCE.	ROOM.
MOLLIE DOUGAL SMITH,	<i>Milton.</i>	Milton
SAMUEL FRENCH SPANG,	<i>Woodstown, N. J.</i>	No. 27, West College
LOUIS A. WALDNER,	<i>Ashland.</i>	No. 10, West College
Non-Matriculates, 19.		

SUMMARY.

Graduate Students	108
The Senior Class	89
The Junior Class	94
The Sophomore Class	116
The Freshman Class	121
Non-Matriculates	19
<hr/>	
Total in the College.....	547

ADMISSION OF STUDENTS.

TO FRESHMAN STANDING.

EXAMINATIONS.

Examinations for admission to the Freshman Class are held on Monday of Commencement week. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each year. In special cases candidates may be examined and admitted at other times in the year.

There must be furnished to the President by the candidate satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismission must be presented. But no student from another college will be admitted except at the beginning of the Academic year.

The required age for admission to the Freshman Class is fifteen years.

I. GENERAL REQUIREMENTS.

Candidates for admission to any of the Courses must pass examinations in the following:

1. ENGLISH.

a. Writing from dictation.

b. English Grammar.

c. Elements of Rhetoric—Invention, Style, and Punctuation.

d. A brief composition upon a subject assigned at the time of the examination. No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

e. Reading.—The books set for reading are those designated by the College Association of the Middle States and Maryland. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of

several topics, to be chosen by the candidate from a considerable number set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of Rhetoric.

In 1909: Shakspeare's *The Merchant of Venice* and *Julius Cæsar*, Bunyan's *The Pilgrim's Progress*, Part I, *The Sir Roger de Coverley Papers* in the *Spectator*, Scott's *The Lady of the Lake* and *Ivanhoe*, Irving's *Sketch Book*, Macaulay's *Lays of Ancient Rome*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*, George Eliot's *Silas Marner*.

In 1910: Shakspeare's *The Merchant of Venice* and *Julius Cæsar*, *The Sir Roger de Coverley Papers* in the *Spectator*, Franklin's *Autobiography*, Scott's *The Lady of the Lake* and *Ivanhoe*, Irving's *Sketch Book*, Macaulay's *Lays of Ancient Rome*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *the Passing of Arthur*, George Eliot's *Silas Marner*.

In 1911: Shakspeare's *The Merchant of Venice* and *Julius Cæsar*, *The Sir Roger de Coverley Papers* in the *Spectator*, Goldsmith's *The Vicar of Wakefield*, Scott's *The Lady of the Lake* and *Ivanhoe*, Irving's *Sketch Book*, Macaulay's *Lays of Ancient Rome*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*, George Eliot's *Silas Marner*.

f. Study and Practice. This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination will be:

1909, 1910, and 1911: Shakspeare's *Macbeth*, Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*, Burke's *Speech on Conciliation with America*, or *Washington's Farewell Address* and Webster's *First Bunker Hill Oration*.

The candidate is advised to do reading parallel and subsidiary to the books mentioned above; he is recommended to commit to memory as much English poetry as possible, and to pay close attention to the essentials of Grammar.

2. MATHEMATICS.

- a.* Arithmetic, including the Metric System;
- b.* Algebra, including Quadratic Equations. The requirements in this study include the treatment of Radicals.
- c.* Plane Geometry.

3. LATIN.

- a.* Latin Grammar;
- b.* Latin Prose Composition;
- c.* Four books of Cæsar's Commentaries.

4. HISTORY.

- a.* History of Greece;
- b.* History of Rome;
- c.* History of the United States.

5. SCIENCE.

- a.* Physiology;
- b.* Physics;
- c.* Geography—Descriptive and Political, and Physical.

6. FREE-HAND DRAWING.

II. PARTICULAR REQUIREMENTS.

A. To enter the Classical Course, the candidate, in addition to the General Requirements, must pass examinations in the following:

1. GREEK.

- a.* Greek Grammar;
- b.* Greek Prose Composition;
- c.* Greek Reader;
- d.* Four Books of Xenophon's Anabasis;
- e.* Three Books of Homer's Iliad.

2. LATIN.

- a. Seven Orations of Cicero;
- b. Six Books of the *Æneid*;
- c. Ovid, 1200 lines.

B. To enter the Latin division of the Philosophical Course, or the Course in Jurisprudence, the candidate, in addition to the General Requirements, must pass examination in the following:

1. LATIN.

- a. Seven Orations of Cicero;
- b. Six Books of the *Æneid*;
- c. Ovid, 1200 lines.

2. Any six units selected from group E.

C. To enter the Greek division of the Philosophical Course, the candidate, in addition to the General Requirements, must pass examination in the following:

1. GREEK.

- a. Greek Grammar;
- b. Greek Prose Composition;
- c. Greek Reader;
- d. Four Books of Xenophon's *Anabasis*;
- e. Three Books of Homer's *Iliad*.

2. Any six units selected from group E.

D. To enter the General Science Course, the Course in Biology, the Course in Chemistry, or the Course in Civil or in Electrical Engineering, the candidate, in addition to the General Requirements, must pass examination in the following:

1. GERMAN OR FRENCH.

The Grammar of the Language, Composition, and Translation at sight of easy prose (three units).

2. SOLID GEOMETRY.

3. Any eight units selected from group E.

E. Candidates for admission to the Philosophical Course or to the Scientific Courses must present in the case of the former, six units, in case of the latter, eight units, selected from the following:

English Literature, History of Modern Europe, History of England, Civics; Zoölogy, Physiography, Botany, Geology, Astronomy; Solid Geometry, Chemistry with Laboratory Practice; French (three units); German (three units).

The time requirement for a unit is five hours a week for a term of twelve weeks.

The requirements for admission to the various Courses amount to the work of a High School with a four years' course.

ADMISSION ON CERTIFICATE.

Graduates of Bucknell Institute, in any of the Courses, will be admitted to the Sophomore year of the corresponding Course in the College.

Graduates from Bucknell Academy, in any of the Courses, will be admitted to the corresponding Courses in the College upon the Diploma of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the General Science Course without examination.

Certificates of the College Entrance Examination Board are accepted for admission, and also certificates of the State Board for Examination of Candidates for registration as Students of Law, and Regents' certificates of New York State.

Students who have graduated in a four years' Course of study in Preparatory and High Schools of superior standing may be admitted upon the certificate of the Principal of the school from which they come without examination upon the subjects specified in the certificate.

All students received upon certificate are regarded as in conditional standing, and will not be matriculated unless their work during the first ten weeks of the term shows that their preparation has been sufficiently thorough.

SPECIAL STUDENTS.

Students who do not desire to take a full regular course can enter and select special shorter courses with the sanction of the Faculty; but in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the Course from which they intend to select.

ADVANCED STANDING.

I. General Requirements. A proportionate increase of age is required for admission to advanced classes over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

II. Particular Requirements. Candidates for admission to advanced classes are examined both as for admission to Freshman standing and also on the studies that have been pursued by the class which they desire to enter.

MATRICULATION.

Matriculation gives membership in the College and is a condition precedent to all degrees and honors as well as to honorable dismissal. No student is admitted to matriculation until he has shown by his class work during at least ten weeks and by his deportment that he is worthy of membership in the College.

HONORABLE DISMISSION.

No person will be dismissed from the College as in good standing who leaves it while under censure; and papers of dismissal given to those leaving while under a condition shall either be given as of a date anterior to the term during which that condition was incurred, or shall distinctly mention the condition; nor will honorable dismissal be granted to any student who has not discharged all his pecuniary obligations to the Institution. No papers of dismissal or of grades will be granted to a student who has not completed one year of work. All certificates of dismissal are signed by the President of the University and sealed with the corporate seal, and no others are valid.

No certificate or statement as to work done in his department is granted by any professor or instructor to an undergraduate.

COURSES OF STUDY.

The Bucknell College offers eight Courses of study leading to degrees in Arts, Philosophy, and Science. Each of the Courses extends through four years. For the Bachelor's degree, thirty-six courses, each of one term five hours a week, must be presented, as well as the prescribed work in oral and written Ex-

pression, the former of which extends through two years of the course and the latter through four years, and also twelve lecture courses.

I. The Classical Course, leading to the degree of Bachelor of Arts, aims to furnish a liberal education in classical and modern Literature, in the Sciences and Arts. Candidates for the degree of Bachelor of Arts must present at least three courses in German or French.

II. The Philosophical Course, with Latin or Greek in each of its two divisions, aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. Those who have completed the studies of the Course, including not less than four courses of German and French, are admitted to the degree of Bachelor of Philosophy. But a candidate in the Philosophical Course who offers nine College courses in either of the Ancient Classical languages or nine College courses in a Modern language in addition to the required work in Latin or Greek may receive the degree of Bachelor of Arts.

III. The Course in Jurisprudence, leading to the degree of Bachelor of Arts, covers four years of work in Law, Political Science, Economics, Philosophy, History, Literature, and Mathematics. The Course in Jurisprudence is designed for persons preparing for the legal profession, for a business career, and for participation in public affairs. No one is graduated from this Course if his average standing for the Course is below nine.

IV. The General Science Course, leading to the degree of Bachelor of Science, is substantially the same as the Philosophical Course, with the substitution of additional Modern Language and Scientific Studies for Latin and Greek. Candidates for the degree of Bachelor of Science must present at least one year of German or French for admission and at least four courses of college work in German or French as requisites for graduation.

V. The Course in Biology, leading to the first degree in Biological Science, covers four years of work in Biology, Chemistry, Physics, Mathematics, and Literature. No one is admitted to the first degree in Biological Science if his average standing for the Course is below nine.

VI. The Course in Chemistry, leading to the first degree in Chemical Science, covers four years of work in Chemistry, Physics, Mathematics, Biology, and Literature. No one is admitted to the first degree in Chemical Science if his average standing for the Course is below nine.

The requirements in Modern Language are the same for the Course in Jurisprudence as for the Philosophical Course; and for the Course in Biology and for that in Chemistry they are the same as for the Course in General Science.

VII. The Course in Civil Engineering, leading to the first degree in Civil Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, Technology, and Language. No one is admitted to the first degree in Civil Engineering if his average standing for the Course is below nine.

VIII. The Course in Electrical Engineering, leading to the first degree in Electrical Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, Physics, Electro-technics, and Language. No one will be admitted to the first degree in Electrical Engineering if his average standing for the Course is below nine.

IX. Advanced Courses in Arts, in Science, and in Engineering have been established, leading to the degrees respectively of Master of Arts, Master of Science, Master of Pedagogy, Civil Engineer, and Electrical Engineer.

The Master's degree is conferred only on condition that the candidate has completed a Course of Liberal study, approved by the Faculty, sufficient in amount to constitute a fifth year of college work. Particulars may be learned by addressing the President.

CURRICULA.

Roman numerals indicate the number of class-exercises required each week; when there is no designation, five is understood.

I. THE CLASSICAL COURSE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

I. TERM—Solid Geometry, Rhetoric, I,
Cicero de Senectute and Livy, Oratory, I.
{ Odyssey,
{ Greek Prose Composition,

II. TERM—Algebra, Rhetoric, I,
Livy, Oratory, I.
{ Lysias' Orations,
{ Greek Testament,

III. TERM—Trigonometry, Rhetoric, I,
Velleius and Pliny, Oratory, I.
{ Plato's Apology,
{ Greek Testament,

SOPHOMORE YEAR.

I. TERM—Rhetoric, . Linear Perspective, I,
Horace, Oratory, I.

ELECTIVE STUDIES:

German, *American History, a,*
French, *Chemistry,*
Greek History, *Surveying,*
Analytical Geometry.

II. TERM—English Literature, Astronomy, I,
Demosthenes, Oratory, I.

ELECTIVE STUDIES:

Roman History, *French,*
American History, b, *Logic,*
Latin, 6, *Chemistry,*
German, *Differential Calculus,*
Physiology.

III. TERM—Civics, or Economic History, History of Art, I.

ELECTIVE STUDIES:

<i>English Oratory,</i>	<i>French,</i>
<i>Public Address,</i>	<i>Anthropology,</i>
<i>Argumentation,</i>	<i>Botany,</i>
<i>Juvenal,</i>	<i>Chemistry,</i>
<i>German,</i>	<i>Integral Calculus,</i>
<i>Elements of Law.</i>	

JUNIOR YEAR.

I. TERM—Psychology,	Sanitary Science, I,
Thesis.	

ELECTIVE STUDIES:

<i>Æschylus and Sophocles,</i>	<i>Real Property,</i>
<i>Latin, 8,</i>	<i>Sociology,</i>
<i>English, 6 or 7,</i>	<i>Physiological Psychology,</i>
<i>Practical Oratory,</i>	<i>Experimental Physiology,</i>
<i>German,</i>	<i>Biology,</i>
<i>French,</i>	<i>Embryology,</i>
<i>Spanish,</i>	<i>Chemistry,</i>
<i>History, Oriental,</i>	<i>Higher Analytics,</i>
<i>Economics,</i>	<i>Mechanics,</i>
<i>Geology.</i>	

II. TERM—Ethics, IV,	Geology, I,
History of Philosophy, I,	Thesis.

ELECTIVE STUDIES:

<i>Euripides,</i>	<i>Municipal Government,</i>
<i>Latin Poets,</i>	<i>Advanced Logic,</i>
<i>English, 8,</i>	<i>Advanced Composition,</i>
<i>German,</i>	<i>Comparative Psychology,</i>
<i>French,</i>	<i>Zoölogy of Invertebrates,</i>
<i>Spanish,</i>	<i>Animal Histology,</i>
<i>English Bible,</i>	<i>Human Anatomy, a,</i>
<i>History, English, a,</i>	<i>Chemistry,</i>
<i>Municipal Sociology,</i>	<i>Mathematics, 11,</i>
<i>Money and Banking,</i>	<i>Physics,</i>
<i>Personal Property.</i>	

III. TERM—Theism,

History of Education, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek, 8,</i>	<i>Railroad Transportation,</i>
<i>Latin, 10,</i>	<i>Zoölogy of Vertebrates,</i>
<i>Journalism,</i>	<i>Cryptogamic Botany,</i>
<i>German,</i>	<i>Bacteriology,</i>
<i>French,</i>	<i>Entomology,</i>
<i>Spanish,</i>	<i>Neurology,</i>
<i>English Bible,</i>	<i>Chemistry,</i>
<i>Bills and Notes,</i>	<i>Astronomy,</i>
	<i>Physics.</i>

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Greek, 15,</i>	<i>School Administration,</i>
<i>Greek Testament,</i>	<i>International Law,</i>
<i>Latin, 11,</i>	<i>Comparative Anatomy,</i>
<i>Anglo-Saxon,</i>	<i>Chemistry,</i>
<i>English, 4 or 9,</i>	<i>Geology,</i>
<i>German,</i>	<i>Geodetic Astronomy,</i>
<i>French,</i>	<i>Contracts,</i>
<i>Medieval History,</i>	<i>Advanced Ethics.</i>

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Demosthenes de Corona,</i>	<i>Agency,</i>
<i>Greek Testament,</i>	<i>Philosophy of Mind,</i>
<i>Latin, 12,</i>	<i>History, 11,</i>
<i>Roman Life,</i>	<i>History of Europe, a,</i>
<i>Chaucer,</i>	<i>Comparative Politics,</i>
<i>German,</i>	<i>Public Finance,</i>
<i>French,</i>	<i>Chemistry,</i>
<i>Psychology of Education,</i>	<i>Economic Geology,</i>
<i>Human Anatomy, b.</i>	

III. TERM—Literature, I,

Thesis.

ELECTIVE STUDIES:

<i>Plato, Phaedo,</i>	<i>History of Europe, b,</i>
<i>Greek Testament,</i>	<i>Private Corporations,</i>
<i>Latin, 13,</i>	<i>Constitutional Law,</i>
<i>German,</i>	<i>Roman Law,</i>
<i>French,</i>	<i>Partnership,</i>
<i>Shakspeare,</i>	<i>Chemistry,</i>
<i>History of Philosophy,</i>	<i>Advanced Physics,</i>
<i>Philosophy of Education,</i>	<i>Forestry.</i>

Seniors may take any of the Electives of the Junior Year for corresponding terms.

II. THE PHILOSOPHICAL COURSE.

Leading to the Degree of Bachelor of Philosophy.

A. LATIN DIVISION.

FRESHMAN YEAR.

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|-------------------------------------------|--------------|
| I. TERM—Solid Geometry, | Rhetoric, I, |
| Cicero de Senectute and Livy, Oratory, I. | |
| German or French, | |
| II. TERM—Algebra, | Rhetoric, I, |
| Livy, | Oratory, I. |
| German or French, | |
| III. TERM—Trigonometry, | Rhetoric, I, |
| Velleius and Pliny, | Oratory, I. |
| German or French, | |

SOPHOMORE YEAR.

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|-------------------|------------------------|
| I. TERM—Rhetoric, | Linear Perspective, I, |
| Horace, | Oratory, I. |

ELECTIVE STUDIES:

German, American History, a,
French, Chemistry,
Greek History, Surveying,
Analytical Geometry.

II. TERM—English Literature, Oratory, I,
Astronomy, I.

ELECTIVE STUDIES:

<i>Roman History,</i>	<i>French,</i>
<i>American History, b,</i>	<i>Physiology,</i>
<i>Latin, 6,</i>	<i>Chemistry,</i>
<i>German,</i>	<i>Differential Calculus,</i>
<i>Logic.</i>	

III. TERM—Civics or Economic History. History of Art, I.

ELECTIVE STUDIES:

<i>English Oratory,</i>	<i>Anthropology,</i>
<i>Public Address,</i>	<i>Elementary Law,</i>
<i>Juvenal,</i>	<i>Botany,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>French,</i>	<i>Integral Calculus,</i>

JUNIOR YEAR.

I. TERM—Psychology, Greek Literature, I.
Thesis.

ELECTIVE STUDIES:

<i>Latin, 8,</i>	<i>Sociology,</i>
<i>German,</i>	<i>Economics,</i>
<i>French,</i>	<i>Physiological Psychology,</i>
<i>Spanish,</i>	<i>Experimental Physiology,</i>
<i>English, 6 or 7,</i>	<i>Biology,</i>
<i>Practical Oratory,</i>	<i>Embryology,</i>
<i>History, Oriental,</i>	<i>Chemistry,</i>
<i>Real Property,</i>	<i>Higher Analytics,</i>
<i>Mechanics.</i>	

II. TERM—Ethics, IV,
History of Philosophy, I,
Geology, I,
Thesis.

ELECTIVE STUDIES:

<i>Latin, 9,</i>	<i>Advanced Logic,</i>
<i>English, 8,</i>	<i>Advanced Composition,</i>
<i>German,</i>	<i>Comparative Psychology,</i>
<i>French,</i>	<i>Zoölogy of Invertebrates,</i>
<i>Spanish,</i>	<i>Animal Histology,</i>
<i>English Bible,</i>	<i>Human Anatomy, a,</i>
<i>History, English,</i>	<i>Chemistry,</i>
<i>Municipal Sociology,</i>	<i>Mathematics, 11,</i>
<i>Money and Banking,</i>	<i>Physics,</i>
<i>Municipal Government,</i>	<i>Personal Property.</i>

III. TERM—Theism,

History of Education, I,

Thesis.

ELECTIVE STUDIES:

<i>Latin, 10,</i>	<i>Cryptogamic Botany,</i>
<i>Journalism,</i>	<i>Zoölogy of Vertebrates,</i>
<i>German,</i>	<i>Entomology,</i>
<i>French,</i>	<i>Bacteriology,</i>
<i>Spanish,</i>	<i>Neurology,</i>
<i>English Bible,</i>	<i>Chemistry,</i>
<i>Bills and Notes,</i>	<i>Astronomy,</i>
<i>Railroad Transportation,</i>	<i>Physics.</i>

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Latin, 11,</i>	<i>School Administration,</i>
<i>German,</i>	<i>International Law,</i>
<i>French,</i>	<i>Contracts,</i>
<i>Anglo-Saxon,</i>	<i>Comparative Anatomy,</i>
<i>English, 4 or 9,</i>	<i>Chemistry,</i>
<i>Medieval History,</i>	<i>Geology,</i>
<i>Advanced Ethics,</i>	<i>Geodetic Astronomy.</i>

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

<i>Latin, 12,</i>	<i>Roman Life,</i>
<i>Chaucer,</i>	<i>Comparative Politics,</i>
<i>German,</i>	<i>Public Finance,</i>
<i>French,</i>	<i>Chemistry,</i>
<i>Philosophy of Mind,</i>	<i>Economic Geology,</i>
<i>History of Europe, a,</i>	<i>Human Anatomy, b,</i>
<i>Psychology of Education,</i>	<i>Agency,</i>

III. TERM—Literature, I, Thesis.

ELECTIVE STUDIES:

<i>Latin, 13,</i>	<i>Philosophy of Education,</i>
<i>German,</i>	<i>Constitutional Law,</i>
<i>French,</i>	<i>Roman Law,</i>
<i>Shakspeare,</i>	<i>Private Corporations,</i>
<i>History of Philosophy,</i>	<i>Chemistry,</i>
<i>History of Europe, b,</i>	<i>Forestry,</i>
<i>Comparative Politics,</i>	<i>Partnership.</i>

Seniors may take any of the Electives of the Junior Year for corresponding terms.

THE PHILOSOPHICAL COURSE.

B. GREEK DIVISION.

FRESHMAN YEAR.

I. TERM—Solid Geometry, Rhetoric, I,
Odyssey, Oratory, I.
German or French,

II. TERM—Algebra, Rhetoric, I,
 { Lysias' Orations, Oratory, I.
 { Greek Testament,
 German or French,

III. TERM—Trigonometry, Rhetoric, I,
 { Plato's Apology, Oratory, I.
 { Greek Testament,
 German or French,

SOPHOMORE YEAR.

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|-------------------|------------------------|
| I. TERM—Rhetoric, | Linear Perspective, I, |
| Greek History, | Oratory, I. |

ELECTIVE STUDIES:

<i>American History, a,</i>	<i>Analytical Geometry,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>French,</i>	<i>Surveying.</i>

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|------------------------------|---------------|
| II. TERM—English Literature, | Astronomy, I, |
| Demosthenes, | Oratory, I. |

ELECTIVE STUDIES:

<i>German,</i>	<i>Logic,</i>
<i>French,</i>	<i>Physiology,</i>
<i>Roman History,</i>	<i>Chemistry,</i>
<i>American History, b,</i>	<i>Differential Calculus,</i>

- | | |
|---------------------------------------|--------------------|
| III. TERM—Civics or Economic History, | History of Art, I. |
|---------------------------------------|--------------------|

ELECTIVE STUDIES:

<i>English Oratory,</i>	<i>Elements of Law,</i>
<i>Public Address,</i>	<i>Botany,</i>
<i>Argumentation,</i>	<i>Anthropology,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>French,</i>	<i>Integral Calculus.</i>

JUNIOR YEAR.

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|---------------------|----------------------|
| I. TERM—Psychology, | Greek Literature, I, |
| Thesis. | |

ELECTIVE STUDIES:

<i>Æschylus and Sophocles,</i>	<i>Sociology,</i>
<i>German,</i>	<i>Economics,</i>
<i>French,</i>	<i>Physiological Psychology,</i>
<i>Spanish,</i>	<i>Experimental Physiology,</i>
<i>English, 6 or 7,</i>	<i>Biology,</i>
<i>Practical Oratory,</i>	<i>Embryology,</i>
<i>History, Oriental,</i>	<i>Chemistry,</i>
<i>Real Property,</i>	<i>Higher Analytics,</i>
<i>Mechanics.</i>	

- II. TERM—Ethics, IV,
History of Philosophy, I,
Geology, I,
Thesis.

ELECTIVE STUDIES:

<i>Euripides,</i>	<i>Advanced Logic,</i>
<i>German,</i>	<i>Advanced Composition,</i>
<i>French,</i>	<i>Comparative Psychology,</i>
<i>Spanish,</i>	<i>Zoölogy of Invertebrates,</i>
<i>English, 8,</i>	<i>Animal Histology,</i>
<i>English Bible,</i>	<i>Human Anatomy, a,</i>
<i>History, English,</i>	<i>Chemistry,</i>
<i>Money and Banking,</i>	<i>Mathematics, 11,</i>
<i>Municipal Government,</i>	<i>Physics,</i>
<i>Municipal Sociology,</i>	<i>Personal Property.</i>

- III. TERM—Theism,
History of Education, I,
Thesis.

ELECTIVE STUDIES:

<i>Greek, 8,</i>	<i>Zoölogy of Vertebrates,</i>
<i>Journalism,</i>	<i>Entomology,</i>
<i>German,</i>	<i>Cryptogamic Botany,</i>
<i>French,</i>	<i>Bacteriology,</i>
<i>Spanish,</i>	<i>Neurology,</i>
<i>English Bible,</i>	<i>Chemistry,</i>
<i>Bills and Notes,</i>	<i>Astronomy,</i>
<i>Railroad Transportation,</i>	<i>Physics.</i>

SENIOR YEAR.

- I. TERM—Social Ethics, I,
Thesis.

ELECTIVE STUDIES:

<i>Greek, 15,</i>	<i>Advanced Ethics,</i>
<i>Greek Testament,</i>	<i>School Administration,</i>
<i>Anglo-Saxon,</i>	<i>International Law,</i>
<i>English, 4 or 9,</i>	<i>Comparative Anatomy,</i>
<i>German,</i>	<i>Chemistry,</i>
<i>French,</i>	<i>Geology,</i>
<i>Medieval History,</i>	<i>Geodetic Astronomy,</i>
<i>Contracts.</i>	

- II. TERM—Political Ethics, I,
Thesis.

ELECTIVE STUDIES:

<i>Demosthenes de Corona,</i>	<i>Agency,</i>
<i>Greek Testament,</i>	<i>Psychology of Education,</i>
<i>Chaucer,</i>	<i>Roman Life,</i>
<i>German,</i>	<i>Comparative Politics,</i>
<i>French,</i>	<i>Public Finance,</i>
<i>Philosophy of Mind,</i>	<i>Chemistry,</i>
<i>History of Europe, a,</i>	<i>Economic Geology,</i>
<i>Human Anatomy, b.</i>	

III. TERM—Literature, I, Thesis.

ELECTIVE STUDIES:

<i>Plato, Phaedo,</i>	<i>Partnership,</i>
<i>Greek Testament,</i>	<i>History of Europe, b,</i>
<i>German,</i>	<i>Constitutional Law,</i>
<i>French,</i>	<i>Roman Law,</i>
<i>Shakspeare,</i>	<i>Private Corporations,</i>
<i>History of Philosophy,</i>	<i>Chemistry,</i>
<i>Philosophy of Education,</i>	<i>Forestry.</i>

Seniors may take any of the Electives of the Junior Year for corresponding terms.

III. THE COURSE IN JURISPRUDENCE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

- I. TERM—Solid Geometry, Rhetoric, I,
 Cicero de Senectute and Livy, Oratory, I.
 { Odyssey,
 { Greek Prose Composition,
 or German,
 or French,
- II. TERM—Algebra, Rhetoric, I,
 Livy, Oratory, I.
 { Lysias' Orations,
 { Greek Testament,
 or German, or French,

- III. TERM—Trigonometry, Rhetoric, I,
 Velleius and Pliny, Oratory, I.
 { Plato's Apology,
 { Greek Testament,
 or German,
 or French,

SOPHOMORE YEAR.

- I. TERM—Rhetoric, Political Science, I,
 Horace, Oratory, I.

ELECTIVE STUDIES:

Greek History, French,
American History, a, Surveying,
German, Chemistry.

- II. TERM—English Literature, Political Science, I,
 Logic, Oratory, I.

ELECTIVE STUDIES:

Demosthenes, American History, b,
Quintilian, German,
Roman History, French.

- III. TERM—Elements of Law, Political Science, I.
 American Constitutional Law,

ELECTIVE STUDIES:

Juvenal, English Oratory,
German, Argumentation,
French, Public Address,
Economic History.

JUNIOR YEAR.

- I. TERM—Psychology, Blackstone, I,
 Economics, Thesis.

ELECTIVE STUDIES:

Real Property, Blackstone B. II, Latin, 8,
Constitutional Limitations, Greek Tragedy,
English History, English Literature,
Sociology, Practical Oratory,
Modern Language.

- II. TERM—Ethics, Blackstone, I,
 Money and Banking, Thesis.

ELECTIVE STUDIES:

<i>Personal Property,</i>	<i>English Bible,</i>
<i>Municipal Government,</i>	<i>Greek,</i>
<i>History,</i>	<i>Latin, 9,</i>
<i>Logic, Course 2,</i>	<i>English Literature,</i>
<i>Advanced Composition,</i>	<i>Modern Language.</i>

- III. TERM—Theism, Blackstone, I,
 Private Corporations, Thesis.

ELECTIVE STUDIES:

<i>Bills and Notes,</i>	<i>Greek,</i>
<i>English Bible,</i>	<i>Latin, 10,</i>
<i>History,</i>	<i>Modern Language.</i>

SENIOR YEAR.

- I. TERM—International Law, Social Ethics, I,
 Thesis.

ELECTIVE STUDIES:

<i>Contracts,</i>	<i>English Literature,</i>
<i>Medieval History,</i>	<i>Latin, 11,</i>
<i>Anglo-Saxon,</i>	<i>Modern Language,</i>
<i>Advanced Ethics.</i>	

- II. TERM—Comparative Politics, Political Ethics, I,
 Thesis.

ELECTIVE STUDIES:

<i>Agency,</i>	<i>Demosthenes de Corona,</i>
<i>Public Finance,</i>	<i>Latin, 12,</i>
<i>Modern Europe, a,</i>	<i>Chaucer,</i>
<i>Philosophy of Mind,</i>	<i>Modern Language.</i>

- III. TERM—Roman Law, Literature, I,
 Thesis.

ELECTIVE STUDIES:

<i>Partnership,</i>	<i>Shakspeare,</i>
<i>Railroad Transportation,</i>	<i>Plato's Phaedo,</i>
<i>Modern Europe, b,</i>	<i>Latin, 13,</i>
<i>History, 9,</i>	<i>Modern Language,</i>
<i>History of Philosophy.</i>	

Seniors may take any of the Electives of the Junior Year for corresponding terms.

IV. THE GENERAL SCIENCE COURSE.

Leading to the Degree of Bachelor of Science.

FRESHMAN YEAR.

I. TERM—Algebra,	Rhetoric, I,
Latin,	Oratory, I.
German, 2, or French,	
II. TERM—Trigonometry,	Rhetoric, I,
Latin,	Oratory, I.
German, 2, or French,	
III. TERM—Analytical Geometry,	Rhetoric, I,
Latin,	Oratory, I.
German, 2, or French,	

SOPHOMORE YEAR.

I. TERM—Rhetoric,	Linear Perspective, I,
Oratory, I.	

ELECTIVE STUDIES:

<i>Chemistry,</i>	<i>Greek History,</i>
<i>Horace,</i>	<i>American History, a,</i>
<i>German,</i>	<i>Surveying,</i>
<i>French.</i>	

II. TERM—English Literature,	Astronomy, I,
Oratory, I.	

ELECTIVE STUDIES:

<i>German,</i>	<i>Logic,</i>
<i>French,</i>	<i>Physiology,</i>
<i>Roman History,</i>	<i>Chemistry,</i>
<i>American History, b,</i>	<i>Differential Calculus,</i>

III. TERM—Civics or Economic History, History of Art, I.

ELECTIVE STUDIES:

<i>English Oratory,</i>	<i>French,</i>
<i>Public Address,</i>	<i>Elements of Law,</i>
<i>Argumentation,</i>	<i>Anthropology,</i>
<i>Juvenal,</i>	<i>Botany,</i>
<i>German,</i>	<i>Integral Calculus.</i>
<i>Chemistry.</i>	

JUNIOR YEAR.

I. TERM—Psychology, Greek Literature, I,
Thesis.

ELECTIVE STUDIES:

<i>English, 6 or 7,</i>	<i>Economics,</i>
<i>Practical Oratory,</i>	<i>Physiological Psychology,</i>
<i>German,</i>	<i>Experimental Physiology,</i>
<i>French,</i>	<i>Zoölogy of Vertebrates,</i>
<i>Spanish,</i>	<i>Embryology,</i>
<i>History, Oriental,</i>	<i>Chemistry,</i>
<i>Sociology,</i>	<i>Higher Analytics,</i>
<i>Real Property,</i>	<i>Mechanics.</i>

II. TERM—Ethics, IV, Geology, I,
History of Philosophy, I, Thesis.

ELECTIVE STUDIES:

<i>English, 8,</i>	<i>Personal Property,</i>
<i>German,</i>	<i>Advanced Composition,</i>
<i>French,</i>	<i>Comparative Psychology,</i>
<i>Spanish,</i>	<i>Zoölogy of Vertebrates,</i>
<i>English Bible,</i>	<i>Animal Histology,</i>
<i>History, English,</i>	<i>Human Anatomy, a,</i>
<i>Money and Banking,</i>	<i>Chemistry,</i>
<i>Municipal Government,</i>	<i>Mathematics, 11,</i>
<i>Municipal Sociology,</i>	<i>Physics.</i>

III. TERM—Theism.

History of Education, I,

Thesis.

ELECTIVE STUDIES:

*Greek, 8,
Journalism,
German,
French,
Spanish,
English Bible,
Railroad Transportation,
Bills and Notes,*

*Cryptogamic Botany,
Biology,
Bacteriology,
Entomology,
Neurology,
Astronomy,
Physics,
Chemistry.*

SENIOR YEAR.

I. TERM—Social Ethics, I,

Thesis.

ELECTIVE STUDIES:

*Anglo-Saxon,
English, 4 or 9,
German,
French,
Medieval History,
Contracts,*

*Advanced Ethics,
International Law,
Comparative Anatomy,
Chemistry,
Geology,
Geodetic Astronomy,*

School Administration.

II. TERM—Political Ethics, I,

Thesis.

ELECTIVE STUDIES:

*German,
French,
Chaucer,
Philosophy of Mind,
Modern Europe, a,
History, 11,
Agency,*

*Psychology of Education,
Roman Life,
Comparative Politics,
Public Finance,
Chemistry,
Economic Geology,
Human Anatomy, b.*

III. TERM—Literature, I,

Thesis.

ELECTIVE STUDIES:

*German,
French,*

*Partnership,
Constitutional Law,*

<i>Shakspeare,</i>	<i>Roman Law,</i>
<i>History of Philosophy,</i>	<i>Private Corporations,</i>
<i>Modern Europe, &c,</i>	<i>Chemistry,</i>
<i>Philosophy of Education,</i>	<i>Forestry.</i>

Seniors may take any of the Electives of the Junior Year for corresponding terms.

V. THE COURSE IN BIOLOGY.

Leading to the First Degree in Biological Science.

FRESHMAN YEAR.

I. TERM—Algebra,	Rhetoric, I,
General Chemistry,	Oratory, I.
Latin or German, 2,	
or French,	
II. TERM—Trigonometry,	Rhetoric, I,
General Chemistry,	Oratory, I.
Latin or German, 2,	
or French,	
III. TERM—Analytical Geometry,	Rhetoric, I,
Qualitative Chemistry,	Oratory, I.
Latin or German, 2, or French,	

SOPHOMORE YEAR.

I. TERM—Rhetoric,	Drawing, I,
Biology,	Oratory, I.
Quantitative Chemistry,	
II. TERM—Invertebrate Zoölogy,	Drawing, I,
Physiology,	Oratory, I.

ELECTIVE STUDIES:

<i>History,</i>	<i>English Literature,</i>
<i>Modern Language,</i>	<i>Chemistry,</i>
<i>Differential Calculus.</i>	

- III. TERM—Vertebrate Zoölogy, Drawing, I.
Botany,

ELECTIVE STUDIES:

<i>Chemistry,</i>	<i>Civics,</i>
<i>Anthropology,</i>	<i>English Literature,</i>
<i>Integral Calculus,</i>	<i>Modern Language.</i>

JUNIOR YEAR.

- I. TERM—Psychology,
Mechanics,
Physiological Psychology or
Experimental Physiology,
- Scientific German, I,
Thesis.

- II. TERM—Comparative Psychology, Scientific German, I, Physics, Thesis.

ELECTIVE STUDIES:

<i>History,</i>	<i>Literature,</i>
<i>Ethics,</i>	<i>Modern Language,</i>
<i>Metallurgy,</i>	<i>Human Anatomy, a.</i>

- III. TERM—Entomology,
Physics,
- Scientific German, I,
Thesis.

ELECTIVE STUDIES:

<i>Toxicology,</i>	<i>English Literature,</i>
<i>Astronomy,</i>	<i>Modern Language,</i>
<i>Theism,</i>	<i>Neurology.</i>

SENIOR YEAR.

- I. TERM—Comparative Anatomy, Social Ethics, I,
 Embryology, Thesis.

ELECTIVE STUDIES:

Geology, *Modern Language,*
Economics, *Chemistry,*
History.

- II. TERM—Histology, Political Ethics, I,
Thesis.

ELECTIVE STUDIES:

<i>Human Anatomy, b,</i>	<i>History,</i>
<i>Economic Geology,</i>	<i>English Bible,</i>
<i>Money and Banking,</i>	<i>Modern Language,</i>
<i>Chemistry.</i>	

III. TERM—Neurology,	Forestry, I,
Bacteriology,	Thesis.

ELECTIVE STUDIES:

<i>Chemistry,</i>	<i>Literature,</i>
<i>Materia Medica,</i>	<i>English Bible,</i>
<i>Railroad Transportation,</i>	<i>Modern Language,</i>
<i>Forestry,</i>	<i>History.</i>

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VI. THE COURSE IN CHEMISTRY.

Leading to the First Degree in Chemical Science.

FRESHMAN YEAR.

I. TERM—Chemistry,	Rhetoric, I,
Algebra,	Oratory, I.
<i>Latin or German, 2,</i>	
<i>or French,</i>	

II. TERM—Chemistry,	Rhetoric, I,
Trigonometry,	Oratory, I.
<i>Latin or German, 2,</i>	
<i>or French,</i>	

III. TERM—Chemistry,	Rhetoric, I,
Analytical Geometry,	Oratory, I.
<i>Latin or German or French,</i>	

SOPHOMORE YEAR.

I. TERM—Rhetoric,	Drawing, I,
Quantitative Chemistry,	Oratory, I.
<i>Biology or</i>	
<i>Analytical Geometry,</i>	

- II. TERM—Quantitative Chemistry, Drawing, I,
 Invertebrate Zoölogy, Oratory, I.

ELECTIVE STUDIES:

Physiology, *English Literature,*
Differential Calculus, *Modern Language.*

- III. TERM—Quantitative Chemistry, Drawing, I.
 Vertebrate Zoölogy,

ELECTIVE STUDIES:

Botany, *Civics,*
Integral Calculus, *Literature,*
 Modern Language.

JUNIOR YEAR.

- I. TERM—Organic Chemistry, Scientific German, I,
 Mechanics, Thesis.

ELECTIVE STUDIES:

Toxicology, *History,*
Psychology, *Modern Language,*
 Sociology.

- II. TERM—Organic Chemistry, Scientific German, I,
 Physics, Thesis.

ELECTIVE STUDIES:

Metallurgy, *Ethics,*
Comparative Psychology, *History,*
Sanitary Science, *Modern Language.*

- III. TERM—Organic Chemistry, Scientific German, I,
 Physics, Thesis.

ELECTIVE STUDIES:

Agricultural Chemistry, *Entomology,*
Astronomy, *Theism,*
History, *Modern Language.*

I. TERM—Physical Chemistry, Social Ethics, I,
Geology, Thesis.

<i>Embryology,</i>	<i>History,</i>
<i>Economics,</i>	<i>Modern Language,</i>
<i>Advanced Physics.</i>	

<i>Economic Geology,</i>	<i>Money and Banking,</i>
<i>Advanced Physics,</i>	<i>History,</i>
<i>Histology,</i>	<i>Modern Language.</i>

Advanced Physics,
Bacteriology,
Forestry,
Constitutional Law,
Railroad Transportation,
Modern Language.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

Leading to the First Degree in Civil Engineering.

I. TERM—Advanced Algebra,	Rhetoric, I,
Drawing,	Oratory, I.
<i>German, 2, or French,</i>	

II. TERM—Trigonometry, Rhetoric, I,
Drawing, Oratory, I.
German, 2. or French.

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| III. TERM—Analytical Geometry,
Drawing,
<i>German, 2, or French,</i> | Rhetoric, I,
Oratory. |
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SOPHOMORE YEAR.

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| I. TERM—Rhetoric,
Surveying,
Chemistry, | Geodesy, I,
Shopwork. |
| II. TERM—Differential Calculus,
Descriptive Geometry,
Chemistry, | Geodesy, I,
Shopwork. |
| III. TERM—Integral Calculus,
Railroad Surveying,
Chemistry, | Geodesy, I,
Shopwork. |

JUNIOR YEAR.

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| I. TERM—Mechanics,
Strength of Materials,
Roads and Pavements, | Architectural Design, I,
Thesis. |
| II. TERM—Physics,
Masonry,
Metallurgy, | Architectural Design, I,
Thesis. |
| III. TERM—Physics,
Boilers and Engines,
{ Water Supply,
{ Sanitary Engineering, | Geology, I,
Thesis. |

SENIOR YEAR.

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| I. TERM—Bridges and Buildings,
<i>Geodetic Astronomy or
Geology or
Advanced Mechanics or
Electrical Measurements,</i> | Social Ethics, I,
Thesis. |
| II. TERM—Hydraulic Motors,
Bridges and Buildings,
<i>Economic Geology or
Advanced Physics or
Direct Current Machinery,</i> | Political Ethics, I,
Thesis. |

- III. TERM— { Mine Surveying, Contracts and Specifications, I,
 { City Surveying, Thesis.
 Bridges and Buildings,
 Railroad Transportation or
 Advanced Physics or
 Alternating Current Machinery
 or *Forestry*,
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VIII. THE COURSE IN ELECTRICAL ENGINEERING.

Leading to the First Degree in Electrical Engineering.

FRESHMAN YEAR.

- I. TERM—Advanced Algebra, Rhetoric, I,
 Drawing, Oratory, I.
 German, 2, or French,
- II. TERM—Trigonometry, Rhetoric, I,
 Drawing, Oratory, I.
 German, 2, or French,
- III. TERM—Analytical Geometry, Rhetoric, I,
 Drawing, Oratory, I.
 German, 2, or French,

SOPHOMORE YEAR.

- I. TERM—Rhetoric, Shopwork, II,
 Mechanics, Perspective, I.
 Chemistry,
- II. TERM—Differential Calculus, Shopwork, II,
 Mechanics, Astronomy, I.
 Chemistry,
- III. TERM—Integral Calculus, Shopwork, II,
 Physics, History of Art, I.
 Chemistry,

JUNIOR YEAR.

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|------------|-----------------------------------------------------------------------------|--------------------------------------------|
| I. TERM— | Electrical Measurements,
Advanced Mechanics,
Strength of Materials, | Machine Design
and Tools, I,
Thesis. |
| II. TERM— | Direct Current Machinery,
Advanced Physics,
Metallurgy, | Machine Design
and Tools, I,
Thesis. |
| III. TERM— | Alternating Current Machinery,
Advanced Physics,
Boilers and Engines, | Machine Design
and Tools, I,
Thesis. |

SENIOR YEAR.

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|------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| I. TERM— | Design of Electrical Machinery,
Electrical Generating Stations
and Transmission,
Graphical Analysis of Structures, | Social Ethics, I,
Thesis. |
| II. TERM— | Design of Electrical Machinery,
Telegraphs, Telephones, Signal-
ing Apparatus,
Hydraulic Motors, | Political Ethics, I,
Thesis. |
| III. TERM— | Electric Lighting,
Electric Railways,
Water Supply and Sanitary
Engineering, | Contracts and Speci-
fications, I,
Thesis. |

DEPARTMENTS OF INSTRUCTION.

The method of instruction in the College is varied according to the nature of the subject. Each professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each branch as the subject-matter requires, yet all are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations. The range and character of the instruction can be gathered from the following account of the different departments.

I. DEPARTMENT OF PHILOSOPHY.

JOHN HOWARD HARRIS, LL. D.,
PROFESSOR OF PSYCHOLOGY AND ETHICS.

CALVIN AURAND HARE, A. M.,
PROFESSOR OF CHRISTIAN EVIDENCES AND LOGIC.

THOMAS ALPHEUS EDWARDS, A. M.,
PROFESSOR OF PEDAGOGY.

The studies in this department embrace Psychology, Philosophy, Ethics, Theism, and Pedagogy.

1. **Psychology, Descriptive and Explanatory.** Required Course. Juniors. First term, five hours.
2. **Physiological and Experimental Psychology.** Elective to Seniors and Juniors. First term, five hours.—PROFESSOR DAVIS.
3. **Lotze, Grundzuege der Psychologie.** Seniors and Juniors. Minor. Two hours.
4. **Philosophy of Mind.** Elective to Seniors and Juniors. Second term, five hours.

5. **Logic, Deductive and Inductive.** Second term, five hours.
—PROFESSOR HARE.

6. **Scientific Method, with Exercises in Analysis.** Seniors and Juniors. Second term, five hours.—PROFESSOR HARE.

7. **Argumentation.** Baker's *Principles of Argumentation*. Briefs, forensics, and oral discussion. Third term. (Rhetoric, 3.)
PROFESSOR PHILLIPS.

8. **History of Philosophy.** Lectures. Required of Juniors. Second term, two hours.

9. **Greek Philosophy** (Greek, 10). Elective to Seniors and Juniors.—PROFESSOR HAMBLIN.

10. **Roman Philosophy** (Latin, 16). Elective to Seniors and Juniors.—PROFESSOR ROCKWOOD.

11. **Metaphysics.** Study of Kant. Third term, five hours.

12. **Ethics.** Required of Juniors. Second term, four hours.

13. **Social Ethics.** Lectures. Required of Seniors. First term, one hour.

14. **Political Ethics.** Lectures. Required of Seniors. Second term, one hour.

15. **Ethics of Plato and Aristotle.** Study of the Republic and Nicomachean Ethics, with collateral readings and thesis. First term, five hours.

16. **Metaphysics, with collateral reading and thesis.** Second term, five hours.

17. **Philosophy of Religion.** Required of Juniors. Third term, five hours.

18. **Evidences of Christianity.** Elective to Seniors. Second term, five hours.—PROFESSOR HARE.

19. **Bible Study.** Lectures on Biblical Themes, by the President. Sundays, 9.30 to 10.15.

EDUCATION.

20. **History of Education.** A general sketch of educational Theory and Practice in Ancient and Modern times. Lectures. Required of Juniors. Third term, one hour.—PROFESSOR EDWARDS.

21. **Psychology of Education.** Based on Harris' *Psychologic Foundations of Education*. Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR EDWARDS.

22. **Comparative and Child Psychology.** Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR DAVIS.

23. **Philosophy of Education.** Based on Horne's *Philosophy of Education*. Elective to Seniors and Juniors. Third term, five hours.—PROFESSOR EDWARDS.

24. **School Administration.** High School organization, function and management; discussion of methods; survey of College Entrance Requirements. First term, five hours.—PROFESSOR EDWARDS.

25. **Teachers' Course in American History.** Methods of teaching History with special reference to the work of secondary schools. Second term, two hours.—PROFESSOR COLESTOCK.

26. **Teachers' Course in Greek.** The *Anabasis* and *Iliad* are used as text. The preparatory work is reviewed, and suggestions made regarding methods of teachings. Some informal lectures are also given regarding the first year's work in Greek. First term, five hours. Seniors and Juniors.—PROFESSOR HAMBLIN.

27. **Teachers' Course in Latin.** Special topics in grammar, with practical exercises in *Cæsar*, *Cicero*, *Vergil*. Third term, five hours. Seniors and Juniors.—PROFESSOR ROCKWOOD.

28. **Teachers' Course in English.** Designed to familiarize the student with the authors required for entrance to college.—PROFESSOR PERRINE.

29. **Teachers' Course in Mathematics.** Mathematics as developed in history and as used in education. (a) Arithmetic: Its culture value, utility, present status in the schools: reforms in arithmetical teaching. (b) Algebra: Its growth during the last three centuries, typical parts (ethical value). (c) Geometry: Its basis, historical position, methods, recent geometry.—PROFESSOR BARTOL.

CERTIFICATES.

The courses in education and methods of teaching, including Child Psychology, the History, the Psychology, and the Philosophy of Education, are helpful to those intending to teach. Students who take not less than eight of these courses will be entitled to a

certificate for the work done in addition to the diploma of the Course in which they graduate.

REGISTER OF TEACHERS.

In order to aid Boards of Control in securing suitable teachers, there is kept a registry of graduates of Bucknell University who may wish to engage in teaching. Alumni and friends of the College will render a service if they will inform the President of vacancies.

II. DEPARTMENT OF LAW.

HAROLD MURRAY MCCLURE, A. M.,
PRESIDENT JUDGE OF THE SEVENTEENTH JUDICIAL DISTRICT,
LECTURER ON CONTRACTS AND PARTNERSHIPS.

FREDERIC EVANS BOWER, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON BILLS AND AGENCY.

ALBERT WILLIAM JOHNSON, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON REAL AND PERSONAL PROPERTY.

The Bucknell College of Liberal Arts offers in its courses for the degrees in Arts and Science a number of subjects specially bearing upon the study of law. Students prepared for college and having taken one year's work in liberal studies, will be admitted to the studies in Law. The instruction is by text-book, lecture, and study of cases. The texts of "Leading Cases" have been placed in the library for the use of students. A certificate for the work done is given by the department, in addition to the Diploma of the College. But this certificate is not given for any legal subject in which the student's standing is below nine; nor to any student whose general average is below nine. Opportunity is given for the *Review* of the *Latin*, *History* and *Literature* required in the Preliminary Examination for registration as students of Law in Pennsylvania.

1. Elementary Law. Robinson's Elementary Law. Third term. Sophomore year.—PROFESSOR COLESTOCK.

2. Blackstone's Commentaries. B. I, III, IV. One hour, Junior year, three terms.—PROFESSOR COLESTOCK.

3. Real Property. Blackstone, B. II, and Select Cases, Lectures. First term, Junior year.—MR. JOHNSON.

4. **Personal Property.** Text-book, Select Cases, Lectures. Second term, Junior year.—MR. JOHNSON.

5. **Contracts.** Text-book, Select Cases, Lectures. First term, Senior year.—JUDGE MCCLURE.

6. **Bills and Notes.** Text-book, Select Cases, Lectures. Third term, Junior year.—MR. BOWER.

7. **Agency.** Text-book, Select Cases, Lectures. Third term, Senior year.—MR. BOWER.

8. **Partnership.** Text-book, Leading Cases, Lectures. Second term, Senior year.—JUDGE MCCLURE.

9. **Principles of International Law.** Fall term, Seniors and Juniors.—PROFESSOR HEIM.

10. **Roman Law.** Third term, Seniors and Juniors.—PROFESSOR ROCKWOOD.

11. **American Civics.** A study of the frame of Federal and State Government.—PROFESSOR COLESTOCK.

12. **The Constitution of Pennsylvania.** Review of the principal decisions of the Supreme Court interpreting the provisions of the Constitution.—PROFESSOR HEIM.

13. **American Constitutional Law.** Third term, Seniors and Juniors.—PROFESSOR HAMBLIN.

14. **Constitutional Limitations.** Cooley's Constitutional Limitations and cases.—PROFESSOR HEIM.

15. **Comparative Constitutional Law.** Second term, Seniors and Juniors. A comparison of the Constitutions of England, France, Germany, Switzerland, and the United States.—PROFESSOR HEIM.

16. **Moot courts** are held in which an attorney-at-law and a student sit as judges, and students, deputed to represent the respective sides, present their arguments. The presiding student writes the opinion of the court.

III. DEPARTMENT OF ECONOMICAL AND POLITICAL SCIENCE.

EPHRAIM M. HEIM, PH. D., PROFESSOR.

1. **Economics, I.** General course, devoted chiefly to problems of Production and Distribution.

2. **Economics, II.** Money and Banking. Prerequisite, Course I.

3. Economics, III. Public Finance. Financial Administration, Taxation and Public Debts. Alternating with Course II. Prerequisite, Course I.

4. Corporate Finance and Commercial Law. Organization and Management of Corporations. Corporation Finance. Form and Nature of Securities and Commercial Paper. Funding Operations, Accounting and Auditing. Nature and Operations of Special Groups of Corporations, such as Public Service Companies, Financial Institutions, Insurance, etc.

5. Transportation and Commerce. Development of Foreign and Inland Commerce and Transportation. Organization and Methods of Railway Transportation. Theory of Rates, and Methods of State Control. Ocean Transportation, Shipping, and Navigation Acts. Commercial Geography.

6. Industrial History of United States. Development of Business Organization. Evolution of Types of Industry. Changes in Land Tenure; in the Distribution and Marketing of Products; in Forms of Exchange; in Insurance; in Organization of Labor Force; in Legislative Policy. Race Elements in American Industry.

7. Economics. Two hours a week. One of the following subjects will be studied: (1) English Economic History; (2) Socialism; (3) Labor Legislation.

8. American Civics. A study of the American frame of Federal and State Government.—PROFESSOR COLESTOCK.

9. American Constitutional Law. Cooley's Elements of Constitutional Law. A study of the law of the Federal Constitution.—PROFESSOR HAMBLIN.

10. Constitutional Limitations. The Constitutional Law of the American Commonwealth. The sphere of Civil Rights in relation of the exercise of governmental power through the criminal law, the police power, the taxing power, and the power of eminent domain.

11. Comparative Politics. A comparative study of the Constitutions of England, France, Germany, Switzerland, and the United States.

12. Municipal Government. Organization of City Government. Problems of Administration, Municipal Functions. Relation to the State. Second term; five hours. Seniors and Juniors.

13. **International Law.** First term, five hours. Seniors and Juniors.

14. **Political Parties and Party Government.** Origin and Growth of Party Government in the United States. Basis of Party Division. Rise and Decline of American Parties. Organization and Machinery of Party Government. European Parties. Lectures, one hour a week, throughout the year. Required in Jurisprudence Course.

15. **Political Science.** Minor Courses, two hours. One of the following will be given: (1) Elements of Political Science; (2) Administrative Law.

16. **American Diplomacy.** Minor Course, two hours.

IV. DEPARTMENT OF SOCIOLOGY.

WILLIAM EMMET MARTIN, L. H. D., PROFESSOR.

1. **Anthropology, Descriptive and Physical.** Elective to Sophomores. Third term, five hours.

2. **Sociology, Principles and Theory.** Elective to Seniors and Juniors. First term, five hours.

3. **Charities and Reform.** Seniors and Juniors. Second term, one hour. Prerequisite Course 2.

4. **Municipal Sociology.** Seniors and Juniors. Second term, five hours.

5. **History of Art.** Lectures. Sophomores. Third term, one hour.

V. DEPARTMENT OF HISTORY.

HENRY THOMAS COLESTOCK, PH. D., PROFESSOR.

History is approached as the gradually unfolding life-story of the race.

1. **Oriental History.** A survey of the civilizations along the Nile and the Euphrates, including Egypt, Babylonia, Assyria, Phœnicia, and Persia, constituting an introduction to biblical and classical times. First term, five hours.

2. **Hebrew History and Literature.** Second term, five hours.
—PROFESSOR PHILLIPS.

3. **New Testament History and Literature.** Third term, five hours.—PROFESSOR PHILLIPS.

4. **Greek Political and Constitutional History.** First term, five hours.—PROFESSOR HAMBLIN.

5. **Roman History.** Second term, five hours.—PROFESSOR ROCKWOOD.

6. **Roman Private Life.** Second term, five hours.—PROFESSOR BALLENTINE.

7. **Medieval Europe.** General survey of Western Europe, from the fourth to the thirteenth century, with especial attention to the institutional life of the people and the progress of civilization. First term, five hours.

8. **Modern Europe to 1789, a.** From the thirteenth century to the opening of the French Revolution. Considers especially the Renaissance, the Protestant Reformation, and conditions combining to produce the French Revolution. Second term, five hours.

9. **Modern Europe since 1789, b.** The French Revolution, the Napoleonic era, Unification in Germany and Italy. Progress in civilization, social and industrial conditions. Third term, five hours.

10. **History of England, a.** Political and industrial development of the English people from the earliest times. Second term, five hours.

11. **Constitutional History of England, b.** With especial reference to the growth and development of the present form of constitutional government in England. Second term, five hours. To alternate with Course 10.

12. **American Colonial History, a.** European background of American colonization. Political, industrial, and constitutional conditions in the English colonies. Causes and results of the Revolutionary War.

13. **American Constitutional History, b.** Origin of the Federal Constitution. Growth of nationality. Conflict between nationality and State sovereignty. Issues involving the interpretation of the Constitution.

14. **Industrial History of United States.** Development of Business Organization. Evolution of Types of Industry. Changes in Land Tenure; in a Distribution and Marketing of Products; in

Forms of Exchange; in Insurance; in Organization of Labor Force; in Legislative Policy. Race Elements in American Industry.—PROFESSOR HEIM.

15. **Teachers' Course in American History.** General survey of American history, designed to meet the needs of those who expect to teach history in secondary schools. Minor course.

16. **The Far East.** Survey of present conditions, social and constitutional, in Japan and China. Minor course.

17. **Historical Biography.** Detailed study of one or more important historical characters.

18. **Present Conditions in Russia.** Minor course.

VI. THE GREEK LANGUAGE AND LITERATURE.

THOMAS FRANKLIN HAMBLIN, A. M., PROFESSOR.

There are four terms of required work in Greek in the Classical Course, and five in the Greek Philosophical Course; while Greek may be taken as an elective during the entire Junior and Senior years. Besides the Elective courses a number of Minor Courses are offered. In the Elective courses a year of poetry alternates with a year of prose. A course of lectures on the Greek poets is given to the Seniors, with collateral reading. A course of New Testament Greek, designed especially for candidates for the ministry and extending through the Senior year is given by Professor Phillips.

Courses: 1-5, required; 6-15, elective.

1. **Homer.** Odyssey, Books 5-8. Review of verb forms and syntax of verbs. Epic forms and styles. Word lists. Metre. First term, Freshman year.

2. **Lysias.** Six orations. Inflection and syntax of nouns. Prose composition. Attic oratory. Translation at sight and hearing. Second term, Freshman year.

3. **Plato.** Apology and selections. Special topics in Greek Syntax. Philosophy and influence of Socrates. The Sophists. Extracts from the Memorabilia at sight. Third term, Freshman year.

4. **Greek Political and Constitutional History.** Bury's History of Greece is used as a text-book. The class is also required to do collateral reading on important epochs. First term, Sophomore year.

5. **Demosthenes.** Olynthiacs and Philippics. History and Politics of the Macedonian period. Style of Demosthenes. Second term, Sophomore year.

6. **Æschylus and Sophocles.** Prometheus Bound and Œdipus Tyrannus. The drama, theatre, and metres. First term, Seniors and Juniors, in alternate years.

7. **Euripides and Aristophanes.** Medea and The Clouds. Greek Comedy. Religious influence of the poets. Influence of the Classical on the Modern Drama. Second term, Seniors and Juniors, in alternate years.

8. **Greek Literature in English.** A course especially designed for students in the Philosophical and Scientific Courses, that they may become acquainted with some of the Greek masterpieces. The best translations will be studied and explained, and informal lectures will be given on various phases of Greek Literature. Third term, Senior and Junior years.

9. **Demosthenes.** *De Corona*. The oratory of Demosthenes, from a literary and political point of view. Æschines against Ctesiphon at sight. Second term, Seniors and Juniors, alternating with 6.

10. **Plato.** The Phædo. Greek Philosophy. The influence of Plato. Third term, Seniors and Juniors; alternating with 7.

11. **New Testament Greek.** The Gospel according to Luke. Hellenistic Greek. Second and third terms, Freshman year; one hour a week.

12-14. **New Testament Greek.** Translation of the synoptic Gospels; interpretation; Burton's *Moods and Tenses*; characteristics of Hellenistic Greek. Designed for students desiring a linguistic and historical foundation for the interpretation of the New Testament. Three terms. Elective to Seniors.—PROFESSOR PHILLIPS.

15. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text-books. Thus the Preparatory work may be reviewed, and suggestions received regarding the methods of teaching. Some informal lectures are also given regarding the first year's work in Greek. First term, Seniors and Juniors.

16. **Xenophon.** The Symposium and Œconomicus. Sophomores and Freshmen. Winter terms in alternate years, one hour.

17. **Homer and Lucian.** Selections from each in alternate years. Sophomores and Freshmen. Third term, one hour.

18. **Xenophon and Æschines.** The *Memorabilia* and the oration against Ctesiphon, in alternate years. Seniors and Juniors, first term, one hour.

19. **Sophocles and the Lyric Poets.** *Antigone* and selections from the Lyric Poets in alternate years. Seniors and Juniors, second term, one hour.

VII. THE LATIN LANGUAGE AND LITERATURE.

FRANK ERNEST ROCKWOOD, LL. D., PROFESSOR.

FLOYD GEORGE BALLENTINE, PH. D., ASSISTANT PROFESSOR.

There are four terms of required work in Latin and eleven of elective in the Classical and Latin Philosophical Courses. Special courses, subject to change from time to time, are also offered.

A. Candidates for the Degree of Bachelor of Science take Latin daily during the Freshman year. This course is intended for students who have passed only in the General Requirements in Latin, for admission. The work consists in the study of *Cicero* (*selected speeches*) and *Vergil*, or *Livy*, and *Prose Composition*.

B. The following courses are designed for students in the Classical and Philosophical Courses, but are also open as electives to students in the Science Course who may be qualified to take them:

Courses: 1-4, required; 5-15, elective.

1. **Cicero.** *De Senectute.* Livy, Book I. Review of special topics in Latin grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year, two divisions.

2. **Livy.** Books XXI and XXII. Latin Prose Composition, based upon the text. Roman history: Special chapters in Liddell. Second term, Freshman year, two divisions.

3. **Velleius.** Roman History. Pliny. Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Third term, Freshman year, two divisions.

4. **Horace.** Selections from the Odes, Satires, and Epistles. Prosody; Historical Outlines of the Latin Language and Liter-

ature; Wilkins' Primer; Lectures. First term, Sophomore year, two divisions.

5. **Roman History.** The work is based on Allen's Rise and Fall of Rome. Mommsen, Bury, and Gibbon are used for supplementary reading. Second term, Sophomore year.

6. **Quintilian.** Books X and XII. Roman Literature. Second term; open to those who have taken course 4; alternating with 12.

7. **Juvenal.** Selected Satires. Third term; open to those who have taken course 4.

8. **Plautus.** Selected Plays. First term; open to Seniors and Juniors; alternating with 11.

9. **Terence.** Andria, Hauton Timorumenos, and Phormio; lectures on such subjects as the life and influence of Terence, the Roman theatre, the production of comedy, etc. Second term; open to Seniors and Juniors; alternating with 14.

10. **Latin Inscriptions.** Allen's Remnants of Early Latin; Egbert's Manual. Third term; open to Seniors and Juniors; alternating with 13.

11. **Tacitus.** Annals. Translation at sight. Roman History. First term; open to Seniors and Juniors; alternating with 8.

12. **Latin Poets.** Crowell's Selections. Roman Literature. Second term; open to those who have taken course 4; alternating with 6.

13. **Teachers' Course in Latin.** Special topics in grammar with practical exercises in Cæsar, Cicero, Vergil. Third term; open to Seniors and Juniors; alternating with 10.

14. **Roman Private Life.** Lectures; required reading; one report, involving elementary investigation. Second term; open to Seniors and Juniors; alternating with 9.

15. **Roman Law.** Morey's Roman Law; Sandar's Institutes of Justinian; lectures and reports. Third term; open to Seniors; required in the Course of Jurisprudence.

16. **Roman Philosophy.** Cicero and Seneca, one hour.

17. **Christian Writers.** Tertullian and Latin Hymns, one hour.

18. **Classical Philology.** Introductory Course, one hour.

VIII. THE ENGLISH LANGUAGE AND LITERATURE.

ENOCH PERRINE, LITT. D., PROFESSOR.

1. **English Literature**, introductory course. Designed to give a general knowledge of the history of English Literature from the Elizabethan to the Victorian periods, inclusive. Required, second term, Sophomore.

2. **English Literature** from 1832. For those who have taken course 1, and alternating with course 13.

3. **English Literature**, 1790-1832: Wordsworth, Coleridge, Shelley, Byron. For those who have taken course 1, and alternating with course 14.

4. **English Literature**, 1614-1790. For those who have taken course 1, and alternating with course 15.

5. **English Literature**, 1600-1660. For those who have taken course 1, and alternating with course 8.

6. **Shakspeare**. Reading of several plays, chiefly as studies in interpretation. For Seniors and Juniors.

7. **Shakspeare**. His mind and art. Critical study of *A Midsummer Night's Dream*, *Hamlet*, and *Tempest*. For Seniors and Juniors.

8. **The English Drama**. Its development from the earliest times to Shakspeare. For those who have taken course 1, and alternating with course 5.

9. **Teachers' Course in English**. Designed to familiarize the student with those authors, both in the way of theory and practice, that are required for entrance to college. For those who have taken course 1, and alternating with course 10.

10. **Principles of Literary Criticism**. For Seniors and Juniors, and alternating with course 9.

11. **American Literature**, with special reference to the national period. For those who have taken course 1, and alternating with course 12.

12. **Journalism**, a study and practice of the various forms illustrated in the metropolitan "dailies," together with proof-reading, study of the functions of editors, and readings in the

history of great American journalists and journals. For those who have taken course 1, and alternating with course 11.

13. **Anglo-Saxon.** Old English Language and Literature, with special elective in Beowulf. For those who have taken course 1 and the required work in German.

14. **Chaucer.** Middle English Language and Literature, with readings in Langland and Gower, and in Lounsbury's *The English Language*. For those who have taken course 1 and the required work in French.

15. **Modern English.** Special comparative readings in Modern English Prose. For those who have taken courses 13 and 14, or show special fitness for the work.

16. **Foreign Literature in English.** Lectures on some of the world's masterpieces are given to the Seniors on Monday mornings during the third term. Alternating with this course, lectures are given on Modern English Fiction.

17. **Periods of English Literature.** Special work is given in different periods of English Literature to those who have passed with credit in courses 1 and 2.

18. *Le Public et les Hommes de Lettres en Angleterre, 1660-1744; Beljame; or Ecrivains Modernes de L'Angleterre, Montegut.*

19. **Shakspeare.** Fünf Vorlesungen von Bernhard ten Brink.

IX. RHETORIC AND ORATORY.

LLEWELLYN PHILLIPS, A. M., PROFESSOR.

BROMLEY SMITH, A. M., INSTRUCTOR IN RHETORIC AND ORATORY.

A.—COURSES IN RHETORIC AND COMPOSITION.

1. **Rhetoric and English Composition.** Introductory course. Themes, weekly recitations, and consultations. Three terms; one hour. Required of Freshmen.

Students who show good preparation are admitted to a special section, in which more advanced work is given.

2. **English Composition.** Daily themes, recitations, and consultations. First term, five hours. Required of Sophomores.

3. **Argumentation.** Baker's *Principles of Argumentation*. Briefs, forensics and oral discussion. Third term. Open to students who have passed in 1 and 2.

4. **English Composition.** *Advanced Course*. Wendell's *English Composition*. Daily and fortnightly themes, recitations, and consultations. Second term; five hours. Open to Seniors and Juniors.

5. **Theses.** Every member of the Junior and the Senior Class writes a thesis. The Junior theses contain not less than two thousand words, the Senior theses not less than three thousand words. The subjects are chosen in conjunction with the heads of the departments to which the subjects belong. Upon these theses are based the Junior Exhibition orations and the Commencement orations. The subjects of the theses are presented to the Professor of Rhetoric before October 22, and an outline of each thesis is presented to the Professor of Rhetoric at the close of the first term. The completed theses are handed in before March 1. They are examined first by the heads of the departments to which the subjects belong and afterwards by the Professor of Rhetoric. The subjects of the Senior theses are published in the annual Catalogue.

6. **English Prose.** Studies in Structure. Two hours.

7. **English Prose.** Studies in the Principles of style. Two hours.

8. **Teachers' Course.** The theory and practice of Rhetoric and Composition. Carpenter, Baker, and Scott. The teaching of English. Five hours. Open to students who have attained an average grade of nine in courses 1, 2, and 4.

9. **The Theory of Rhetoric.** A study of the laws of thought.

10. **Movements of Thought in the Nineteenth Century.** Methods of investigation; theses. Open to Seniors.

B.—COURSES IN ORATORY.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. All instruction is based upon the principle that impression precedes and determines expression. Each student receives individual attention during the first half of the course in elocution, during the latter half in oratory. Special attention is given to debate. Each student is urged to take an active part in the work of the Literary Societies.

The ultimate object of the *physical culture* is to secure a good presence and the ability on the part of the voice and body to interpret correctly the conceptions of the mind.

FRESHMEN.

1. **Physical Culture.** Exercises for securing correct position, and harmony of movements and attitudes; exercises for breath control and vocal culture and for grace in gesture.

2. **Public Speaking.** Study of the fundamentals of public speaking; delivery of short extracts from masterpieces of oratory, aiming to secure directness, earnestness, and dignity of address. Required, first and second terms, one hour.

3. **Public Speaking.** Delivery of complete orations illustrating and applying the principles studied in the first and second terms. A prize is offered to the young man and one to the young woman of the Freshman Class who excels in the delivery of these orations. Required, third term.

SOPHOMORES.

4. **Public Speaking.** Close analysis and study of the details of public speaking; study of the various styles of delivery and of the different forms of discourse. Delivery of selected extracts from masterpiece illustrating each. Extemporaneous speaking. Reviews and continuation of the physical culture of course 1. Required, first term, one hour.

5. **Public Speaking.** Study of narration. Description and argumentation. Delivery of selections illustrating each. Preparation and delivery of original narrations and descriptions. Extemporaneous speaking. Required, second term, one hour.

6. **Public Speaking.** Delivery of complete argumentative selections. Preparation for and participation in debate. A prize is awarded to the young man of the Sophomore Class who shall excel in the delivery of an assigned selection in argumentation. A prize is awarded to the young woman of the Sophomore Class who shall excel in the delivery of an assigned selection in narration. Third term.

7. **Public Address.** The various forms of addressing the public are studied. Beginning with open letters and editorials, the

class advances to presentations, acceptances, nominations, dedications, inaugural addresses, institute talks, banquet toasts, eulogies, commemorative orations, etc. Each student prepares and delivers before his class specimens from the above forms. Third term, five hours; Sophomores.

8. Practical Oratory. Briefs and notes are made the basis for extemporaneous addresses; Congressional speeches and modern occasional orations are outlined and studied. The application of rhetorical and of oratorical principles in their connection with logic is considered. Special work in line with the student's intended profession is given. A limited field, historical, economic, or otherwise, is assigned to each student for development. When his orations have been examined and corrected, the student delivers them before the class. First term, five hours; Seniors and Juniors.

9. Interpretative Reading. The use of the voice in bringing out the meaning of the best literature is obtained by practice in class. Attention is given to the pedagogical and psychological aspects of reading. Second term, five hours; Seniors and Juniors. (Counts as Minor.)

JUNIORS.

10. Prize Contest. A prize contest in Oratory is held in the third term by Juniors, appointed on the ground of superiority in composition and elocution as shown during the preceding terms of the college course.

11. Prize and Honor Debate. During the year there are three debates by Juniors, the last of which is a prize and honor debate.

12. Oral Debates. Briefs, Debates, and Criticism. The Professor of Economic and Political Science coöperates in this course. First term; one hour.

The contestants for the Junior Prize are selected from the students who take this course.

SENIORS.

13. Honors in Debating. During the year an elective course in debating is offered to Seniors. The last debate is public.

14. Prize in Oratory. A prize is offered for the best oration of those delivered by the Senior orators at Commencement, regard being had equally to subject-matter, style, and delivery.

X. DEPARTMENT OF MODERN LANGUAGES.

GUIDO CARL LEO RIEMER, A. M., PH. D., PROFESSOR.

BENJAMIN W. GRIFFITH, A. M.,
INSTRUCTOR IN FRENCH.

LEO LAWRENCE ROCKWELL, A. M.,
INSTRUCTOR IN GERMAN.

A.—GERMAN.

1. **Elementary Course.** Grammar; German Prose; practice in writing German. Two terms.
2. **German Prose.** Grammar; practice in writing German, reading of Prose and Poetry. Course 1.
3. **German Prose and Poetry.** Grammar; practice in writing German. Required course, Freshmen of the Scientific Course; elective course for those who have taken course 2.
4. **Historical German Prose.** Practice in writing German. Elective course for those who have taken course 3.
5. **Modern German Novelists.** Practice in writing German. Elective course for those who have taken course 4.
6. **Schiller.** Practice in writing German; lectures. Elective course, for those who have taken course 4.
7. **Goethe.** Practice in writing German; lectures. Elective course, for those who have taken course 4.
8. **Goethe.** Practice in writing German; lectures. Elective course, for those who have taken courses 5-7.
9. **Goethe.** Shorter Poems, Dichtung und Wahrheit, Faust I; lectures. Elective course for those who have taken course 8.
10. **Lessing.** Practice in writing German; lectures. Elective course for those who have taken course 9.
11. **Kleist, Grillparzer and Uhland.** Practice in writing German; lectures. Course 11 alternates with course 8.
12. **Heine, Hebbel and Ludwig.** Practice in writing German; lectures. Course 12 alternates with course 9.

13. **Hauptmann and Suderman.** Practice in writing German; lectures. Course 13 alternates with course 10.

14. **Lotze.** Grundzüge der Psychologie. (Philosophy 3.)

15. **Shakspeare: Fünf Vorlesungen.** (English 16.)

16. **German Political Science.** (Economics 16.)

17. **German Biological Science.** (Biology 21.)

18. **German Chemical Science.** (Chemistry 16.)

19. **Scientific German.** Designed especially for students in the Engineering Courses. Two hours, throughout the year.

B.—FRENCH.

1. **Elementary Course.** Grammar; French prose; practice in writing French. Required course, Freshmen.

2. **French Prose.** Grammar; practice in writing French. Elective course for those who have taken course 1.

3. **French Prose and Poetry.** Grammar; practice in writing French. Elective course for those who have taken course 2.

4. **Historical and Critical French Prose.** Practice in writing French. Elective course for those who have taken course 3.

5. **Authors of the XIX Century.** Practice in writing French. Elective course for those who have taken course 4.

6. **Corneille and Racine.** Practice in writing French; lectures. Elective course for those who have taken course 5.

7. **Molière.** Practice in writing French; lectures. Elective course for those who have taken course 6.

8. **Authors of the XVIII Century.** Practice in writing French; lectures. Elective course for those who have taken course 7.

9. **A View of French Literature.** Rapid reading; practice in writing French; lectures. Elective course for those who have taken course 8.

10. **Publique et les Hommes de Lettres, or Ecrivains Modernes de l'Angleterre.** (English 15.)

C.—SPANISH.

1. **Elementary Spanish.** Grammar. Conversation. Translation of easy prose. Elective course, for Seniors and Juniors. First term, five hours.

2 and 3. **Spanish Prose.** Translation, Composition, Conversation. Elective course, for Seniors and Juniors. Second and third terms, five hours.

D.—ITALIAN.

Special instruction for engineering students in Italian Grammar and Conversation.

XI. DEPARTMENT OF MATHEMATICS.

WILLIAM CYRUS BARTOL, PH. D.,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

JOSEPH MEIXELL WOLFE, A. M.,
PROFESSOR OF MATHEMATICS AND SURVEYING.

CHARLES ARTHUR LINDEMANN, A. M.,
PROFESSOR OF APPLIED MATHEMATICS.

FRANK MORTON SIMPSON, SC. M.,
PROFESSOR OF PHYSICS AND DRAWING.

WALTER KREMER RHODES, A. M., E. E.,
PROFESSOR OF ELECTRO-TECHNICS.

FRANK EUGENE BURPEE, A. M., ASSISTANT PROFESSOR.

CHARLES JOHN LEPPERD, ASSISTANT IN SURVEYING.

GEORGE FRANK CASE, ASSISTANT IN SHOP WORK.

LEON ALLISON JONES, ASSISTANT IN PHYSICS.

1. **Solid Geometry.** The course includes the geometry of solids with plane surfaces, the cone, the cylinder, the sphere, the spherical triangle, and conic sections. Freshman year, first term, five hours.

2. **Algebra.** The topics are ratio, proportion, variation, progressions, theory and development of functions, logarithms, differentiation of algebraic functions, indeterminate equations, series, higher equations. Freshman year, first or second term, five hours.

3. **Determinants and Advanced Algebra.** Open to students who have completed course 2. Second term, five hours.

4. Trigonometry. The course includes plane trigonometry with application to problems in mensuration and surveying, and spherical trigonometry with applications to problems in astronomy. Freshman year, second or third term, five hours.

5. Analytical Geometry. The student is taken through the elementary properties of the right line, the circle, and the conic sections, and higher plane curves. The course is intended to give a clear conception of the methods of Cartesian analysis rather than an extensive knowledge of its results. Freshman year, third term, five hours, or Sophomore year, first term, five hours.

6. Higher Analytical Geometry. The course covers the geometry of three dimensions surfaces of revolution and higher plane curves. Junior year, first term, five hours.

7. Differential Calculus. The course includes higher derivatives and functions of several variables, infinite series, maxima and minima. Prerequisite, course 5. Sophomore year, second term, five hours.

8. Integral Calculus. The course includes the simpler methods of integration, rectification and quadrature of plane curves, surfaces and solids of revolution, and applications to problems in Physics and Mechanics. Sophomore year, third term, five hours.

9. Differential Equations. A course with mechanical applications. Senior year, first term, five hours.

10. Descriptive Astronomy. The aim of the course is to present in concise form a synopsis of astronomical knowledge to date. Lectures. Sophomore year, Arts and Science courses, first term, one hour.

11. General Astronomy. The subject is taught by text-book, with illustrations in the observatory. The students have free use of the ten-inch equatorial telescope. Third term, five hours.

12. Geodetic Astronomy. The course includes the use of the astronomer's transit and micrometer; observations for Time; conversion of Time; Latitude, Longitude, Azimuth and their geodetic determination; figure and dimensions of the Earth; use of the American Ephemeris; practice in the Observatory. Prerequisites, a course in Surveying and one in the Elements of Astronomy. Seniors, first term, five hours.

13. Plane Surveying. *Land Surveying*, laying-out, subdividing, and finding the area of given tracts of land. *Topographical*

Surveying, by chain and compass, by plane table, and by transit instrument and stadia rods. Sophomore year, first term, five hours.

14. Geodetic Surveying. Minor course. Sophomore year. Civil Engineering, one hour throughout the year.

15. Railroad Surveying. Instruction is given in the theory of simple and compound curves, wyes, switches, and turn-outs. A corps is organized, which makes a preliminary survey of a cross-country railroad. The topography of this is taken and plotted; elevation of centre line taken; grade determined; degree of curves fixed, and paper location made. Centre line of permanent survey is now located; slope stake set; earthwork calculated; specifications drawn up, and estimates made of the line surveyed. Sophomore year, Civil Engineering, third term, five hours.

16. Mine Surveying. Problems in Mine Surveying, such as plumbing the shaft, locating the bore holes, lining up chambers, driving tunnels, are worked out in class and with the instruments. Plotting of notes forms a part of the work, and a trip of inspection is made to some nearby workings. Senior year, Civil Engineering, third term; five hours for six weeks.

17. City Surveying. Town sites are located and plotted; permanent reference points and bench marks established; sewers located and calculated; curb and property lines determined. Senior year, Civil Engineering, third term, five hours for six weeks.

18. Descriptive Geometry. A study of the representation of lines, plane surfaces, solids, and sections of solids; the projection of points, lines, and surfaces; practical problems. Engineering Courses, Sophomore year, second term, five hours.

19. Linear Perspective. A course of twelve lectures designed to familiarize the student with the principles of perspective, and to give him an insight into their manifold applications. Arts and Science Courses, Sophomore year, second term, one hour.

20-22. Courses in Drawing. Extending through the Freshman year of the course in Civil and Electrical Engineering, and required of all candidates for the first degree in Civil or Electrical Engineering. Ten hours a week.

(1) **Linear and Freehand.** An elementary course in drawing to give the student facility in the use of instruments; Geometrical problems; cross-sectioning; shading; isometric drawing; sketching from models.

(2) **Lettering.** The form and proportion of standard letters; structural details; methods of spacing; laying out titles.

(3) **Architectural Drawing.** Plans, elevations, and perspective drawings; copying of standards.

(4) **Pen and Color Topography.** Topographical signs; methods of hill shading; surface forms by contours and in color and pencil; enlarging and reducing maps, rendering in water colors, sepia, and charcoal.

(5) **Tracing and Blue Printing.** Photographic methods of the Architect and Engineer.

23. Architectural Design. The design of brick and stone structures, including the preparation of plans and specifications. Junior Engineering, one hour, first and second terms.

24-26. General Physics. (Three terms.) These courses in Physics are required in the Engineering Courses and are elective in the other courses. Instruction is given in the Laboratory supplemented by recitations and lectures.

(a) **LABORATORY.** The Laboratory instruction extends throughout the year and includes experiments illustrating the general laws in all branches of physics. The experiments are largely quantitative and use is made of instruments of precision. The work is entirely individual. The student is required to take notes in the Laboratory, elaborating them outside and presenting for criticism from time to time.

(b) **RECITATIONS.** Recitations supplement the laboratory work. The study of a text covering the theoretical and mathematical side of the subject is required.

(c) **LECTURES.** Frequent lectures are given in which use is made of lecture-room apparatus. All important phenomena are illustrated and experimental demonstrations of the principal laws are presented.

(1) **Mechanics and Heat.** First term.

(2) **Electricity and Magnetism.** Second term.

(3) **Acoustics and Optics.** Third term.

27-29. Advanced Physics. The course extends throughout the year and assumes that the student has completed courses 26-28 or the equivalent. Instruction is given chiefly in the Laboratory. Students are instructed in the use of instruments of precision em-

played in Mechanics, Heat, Light, Electricity, and Magnetism. The work in the Laboratory is supplemented by written reports in which both general and theoretical results obtained are discussed. These reports afford the basis for criticism of the work. The work must be pursued in such order as the appointments of the Laboratory may require.

The subject of Electricity and Magnetism will occupy about two-thirds of the year. For this work the laboratory is supplied with instruments of precision, such as the Thomson Reflecting Astatic Galvanometer, Helmholtz, D'Arsonval, and Ballistic Galvanometers, Standard Cells, Condensers, and Resistance, Weston instruments, etc. Two 50-kilowatt, Thomson-Ryan Dynamos, 125 volts, at the University lighting plant and a 2-kilowatt 110-volt machine are available for study. The equipment is increased as the need requires.

(1) **Mechanics.** Problems of engineering will receive special attention. The work will include experiments in statics, principle of movements, calibration of capillary tubes, testing levels, etc.

(2) **Heat.** Calorimetry and Thermo-dynamics of the steam engine will form the basis of the work.

(3) **Light.** The student will be instructed in the use of the spectrometer, spectroscope, interferometer, and the photometer.

(4) **Electricity and Magnetism.**

(a) Measurement of Current, Electro-motive Force, and Resistance. Determination of constants of galvanometers.

(b) Study of Primary and Secondary Batteries and Standard Cells.

(c) Tests, and calibration of commercial instruments.

(d) Experimental study of dynamo machines, including tests of efficiency.

(e) The Transmission of Intelligence.

30. Strength of Materials. Tensile, compressive, shearing, and cross-bending stresses are considered; methods of testing materials of construction are outlined, and problems in the design of wooden and steel beams, girders, footings, beams, roof trusses, etc., are worked out. First term, Junior Engineering, five hours.

31. Masonry Construction. The materials of masonry construction and their preparation and use receive attention; this is

followed by a study of foundations—ordinary, pile, and under water. Under masonry structures are treated; masonry dams, retaining walls, bridge abutments and piers, culverts, and masonry arches. Second term, Junior Civil Engineering, five hours.

32-34. Bridges and Buildings. The first term is devoted to Graphical Statics, problems being worked out daily in the drafting room. The work of the second term consists in the determination of stresses in framed structures by means of graphic and algebraic methods. The third term is spent in the calculation and designing of some framed structure and the preparation of the drawings for the same. Senior Civil Engineering, three terms, five hours.

35. Roads and Pavements. The economic location and design of streets and pavements are considered along with the questions of street drainage and foundations for roads and pavements. Comparisons are made between earth, gravel, broken stone, shell, plank, and burned clay roads, and also between asphalt, brick, stone block, and wooden block pavements. Equestrian roads, race tracks, bicycle paths, and sidewalks receive attention. First term, Junior Civil Engineering, five hours.

36. Hydraulics and Hydraulic Motors. This course includes the theory of Hydrostatics and Hydraulics, the flow of water over weirs, through orifices and tubes, and in pipes, canals, and rivers; the measurement of water-power; water wheels and turbines. Senior Engineering, second term, five hours.

37. Water Supply and Sanitary Engineering. Under the head of the collection and storage of water are taken up quantity of water required, rainfall, flow of streams, storage and evaporation of water, supplying capacity of water sheds, springs, and wells. The flow of water in streams, pipes, and channels is discussed, as also the practical construction of water works. A study is made of the various methods of sewage disposal. Third term, Junior Engineering, five hours.

38. Contracts. In this course will be given the principles of Common Law as applied to contracts. Third term, Senior Engineering, one hour.

39. Electrical Measurements. Lectures, recitations, and laboratory work. Juniors, Engineering, first term, five hours.

40. Direct Current Machinery. Lectures, recitations, and laboratory work. Juniors, Engineering, second term, five hours.

41. **Alternating Current Generators, Transformers, and Motors.** Lectures, recitations, and laboratory work. Juniors, Engineering, third term, five hours.

42. **Design of Electrical Machinery.** Lectures, recitations, drawings, and shop-work. Seniors, Electrical Engineering, first and second terms, five hours.

43. **Generating Stations and Sub-stations, Distribution of Electricity, Storage Batteries.** Lectures, recitations, and laboratory work. Seniors, Electrical Engineering, first term, five hours.

44. **Telegraph, Telephone, Railway Signal and Related Apparatus.** Lectures, recitations, and laboratory work. Seniors, Electrical Engineering, second term, five hours.

45. **Electric Lighting, Construction, Wiring, and Economics.** Seniors, Electrical Engineering, third term, five hours.

46. **Electric Railways, Construction, Operation, and Economics.** Seniors, Electrical Engineering, third term, five hours.

47. **Boilers, Steam, Gas, Air, and Oil Engines, Valve Gears, and Governors.** Juniors, Engineering, third term, five hours.

48. **Machine Design, Machine Tools.** Lectures, recitations, drawing. Juniors, Electrical Engineering, three terms, one hour.

49. **Shop-work.** Pattern making and machine work. Sophomores, Electrical Engineering, six hours throughout the year.

XII. DEPARTMENT OF CHEMISTRY.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.

JOHN CLYDE HOSTETTER, SC. B., INSTRUCTOR.

The courses in Chemistry are designed to give a comprehensive view of the field covered by chemical investigation and to train the student in the various methods of chemical research. The courses as a whole are offered to those who expect to teach chemistry or enter the testing or industrial laboratory. As chemistry is at the foundation of the natural sciences, the first courses are essential to the study of science and medicine, and are important for general culture.

1. **Descriptive Chemistry.** Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the non-metallic elements and their compounds. First term.

2. Descriptive Chemistry. Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the metallic elements and their compounds. Second term.

3. Qualitative Analysis. In the first part of the term chemical reactions are studied in the laboratory, class-room, and text-book, after which fifty compounds, mixtures, and industrial products are determined. Each student reports individually and is questioned on the methods of determination. Twelve hours laboratory work a week required. Third term, prerequisite courses 1 and 2.

4, 5, 6. Quantitative Analysis. This course, extending through the year, aims to acquaint the student with the methods of analysis used in different chemical determinations.

(1) In the first term, Gravimetric methods are studied and pure inorganic preparations made.

(2) In the second term, Volumetric methods are studied.

(3) In the third term, Fire and Gas analysis are taken up. Chemical theories are studied throughout the year. Laboratory work, nine hours a week. Prerequisites, courses 1, 2, and 3.

7. Organic Chemistry. Prerequisites, courses 1, 2, and 3. First term, five hours a week. Laboratory work, six to eight hours a week.

Hydrocarbons of the methane, olefine, and acetylene series and their most important derivatives are studied. In the laboratory, after preliminary exercises to train in technique, each student makes a number of pure organic substances belonging to the compounds studied.

8. Organic Chemistry (Continued). Second term, five hours a week. Prerequisite, Course 7. Aromatic hydrocarbons and derivatives are studied. In the laboratory a number of substances are made, and practice in ultimate organic analysis is given. From six to eight hours a week should be devoted to laboratory work, at times convenient to the student.

9. Organic Chemistry (Continued). Third term, five hours a week. Laboratory work, six to eight hours a week. Polycyclic and heterocyclic compounds related both to aliphatic and aromatic compounds are studied. In the laboratory, syntheses and analyses of comparative difficulty are performed, and some study of organic reactions is made.

10. Physical Chemistry. First term, five hours a week. Laboratory work, six hours a week. Prerequisites, courses 1, 2, 3, 4, 5, 6, and Mechanics and Physics.

A study is made, during the two terms of the courses, of gases and the gas laws; of the properties of liquids and solids so far as of interest to the chemist; of solutions; of balanced actions; the phase rule, and particular cases of homogeneous and heterogeneous equilibrium.

11. Physical Chemistry. Second term, five hours a week. Course 10 is continued and the theoretical part of electro-chemistry begun. Laboratory work, six hours a week. The laboratory work during the two terms will include the more important physico-chemical measurements, such as determination of heats of reaction, of specific gravities, of molecular weights, of velocities of reaction, and others.

12. Electro-Chemistry. Third term, five hours a week. Laboratory work, six hours a week. Prerequisite physical chemistry.

The theoretical consideration of electro-chemistry is continued and technical subjects are studied, including electrolytic analysis of metals and some electrosynthetic methods.

The laboratory work will be designed to illustrate the subjects studied and give practice in electro-chemical technique.

13. Toxicology and Urinalysis. Poisons and their separation from organic matter are studied during the first part of the term. During the second part analysis of urine and of food adulteration is studied. Laboratory work, ten hours a week. Prerequisites, courses 1, 2, and 3.

14. Metallurgy. The manufacture and properties of iron and steel are studied and the influence of carbon, silicon, phosphorus, sulphur and other elements. Laboratory work consists in determining these elements and studying the structure under the microscope. Laboratory work, eight hours a week. Prerequisites, courses 1, 2, and 3.

15. Agricultural Chemistry. The chemistry of plants and fertilizers is studied. Fertilizer and food analysis is practiced in the laboratory six hours a week. This course covers the legal requirements for teachers of Pennsylvania high schools. Prerequisites, courses 1, 2, and 3.

16. German Chemical Literature. One hour a week, throughout the year. Prerequisite, at least two terms of German, and courses 1, 2, and 3 in chemistry.

Selections from standard German text-books and periodicals are read, and study is made of the derivation and formation of scientific words.

17. **Physical Chemistry.** Mathematical topics.

18. **Organic Research.**

19. **History of Chemistry.**

XIII. DEPARTMENT OF ORGANIC SCIENCE.

GEORGE G. GROFF, M. D., LL. D., PROFESSOR.

NELSON FITHIAN DAVIS, SC. D., PROFESSOR OF BIOLOGY.

PHAREZ GROSS HESS, A. B., INSTRUCTOR.

HARRY CLAUDE SEILER, SC. B., ASSISTANT.

It is the constant aim in this department to teach how to interpret nature. The student is guided in his investigations by lectures and laboratory manuals.

Courses 1, 2, 6, 7, 8, 17, 19, 21, 22, and 24 are given by Professor Groff.

Courses 3, 4, 5, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20, and 23 are given by Professor Davis.

1. **Animal Physiology.** The aim of this course is to acquaint the student with the elementary facts concerning the functions of the human body. The work consists of lectures and readings from text-books on Physiology. The course was intended for those who wish a general knowledge of Physiology.

2. **Neurology.** Recitations, lectures, and laboratory work. The course is intended to give the general anatomy and histology of the Nervous System such as is required for those preparing for Medicine. Prerequisite, course 1 and General Chemistry.

3. **Experimental Physiology.** Lectures and experiments to illustrate the functions of the organs of the animal body. Alternating with course 4.

4. **Physiological and Experimental Psychology.** Elective to Seniors and Juniors. Alternating with course 3.

5. **Comparative and Child Psychology.** Text-book, reports. Elective to Seniors and Juniors.

6. **Sanitary Science.** Lectures, one hour a week.

7. **Human Osteology and Comparative Anatomy.** Recitations and dissections. In this course the student makes a systematic study of the human skeleton. The structure of the composite bones is compared to those of other vertebrates.

8a. **Human Anatomy.** Lectures, recitations, and dissections. The student has an opportunity to make a complete dissection of the human body. The work is largely independent. Models and text-books are used as guides.

8b. A second course, similar to 8a.

9. **Normal Histology.** Recitations and lectures, and laboratory work. In this course the student makes a thorough study of the microscopic structure of the cell and elementary tissues, followed by the study of the various organs of mammals. In the laboratory work the students prepare specimens by the various methods in fixing, hardening, staining and sectioning.

10. **Embryology.** Recitations, lectures, and laboratory work. This course is important because it gives a key to the interpretation of the structure and relationship of the parts of the animal body and because it investigates the development of the individual. It includes the early development of amphibians, birds and mammals.

11. **Biology.** Recitations and dissections. The aim of this course is to meet the needs of general education in this subject, and at the same time makes clear the fundamental principles, scope, method, history, and subdivisions of Biology and its relation to other sciences.

12. **Invertebrate Zoölogy.** Recitations and dissections. This course succeeds the course in Biology. It takes up the study and dissection of representatives of the invertebrate groups, including their life, histories, habits and distribution.

13. **Vertebrate Zoölogy.** Recitations and dissections. This is a continuation of course 10. It completes a general survey of the animal kingdom, special attention being given by each student to dissections, anatomy, life histories, and habits of the various groups.

14. **Entomology.** Recitations and laboratory work. In this course each student makes a thorough study of the dissection, life history, and habits of insects representative of the different orders.

Special attention is given to the economical importance and relation of insects to agriculture.

15. Organic Evolution. Minor course. Lectures and discussions. The evolution of the vertebrates is traced in detail and much time is given to the relation of evolution to religious thought.

16. Heredity. Minor course. The lectures and reports deal with the principal facts and problems of variation and heredity and are supplemented by collateral readings.

17. Phænogamic Botany. Recitations, lectures, and field work. This is a general course including the anatomy of the representative types and their relation to the environment; a study is made of the local flora.

18. Cryptogamic Botany. Recitations, lectures, and field work. This includes a general introduction to Botany, taking up the study of at least one plant from each of the groups, and working out their life histories. The laboratory work and lectures develop the subject from the evolutionary standpoint.

19. Elements of Forestry. A course covering the factors that control and regulate the development of our forests.

20. Bacteriology. Recitations, lectures, and laboratory work. The laboratory work includes the practice of the essential bacteriological methods. Much time is given to the study of bacteria found in water and in milk.

21. Mineralogy and Geology. Recitations, lectures, and laboratory work. A general course intended to give the leading facts and principles of Geology and the more important events in the Geological history of the earth. The development of the North American continent is studied in detail.

22. Economic Geology. Recitations, lectures, and laboratory work.

23. German Biological Literature. Junior year, one hour.

24. Materia Medica. Fall term, five hours.

MEDICAL PREPARATORY DEPARTMENT.

The student can select from the medical subjects offered at Bucknell University such as will be required for advanced standing in the Medical College in which he may wish to complete his

studies for the degree in medicine, and if his standing in such subject averages not less than nine, he will receive from the Department of Medicine in Bucknell University a Certificate of proficiency in those subjects and in such other subjects related to medical studies as he may have completed at Bucknell. These subjects are open only to students in the College of Liberal Arts, and the Certificate of proficiency is given to students only upon graduation, and in addition to the Diploma of the College of Liberal Arts.

THE BIOLOGICAL LABORATORY.

The Biological Laboratory is equipped with apparatus for carrying on work in the Organic Sciences. A large room has been fitted up especially for Microscopic work with equipments for fifteen students. Each student has a separate desk containing a microscope and the necessary reagents. The Laboratory is also supplied with collecting and bacteriological apparatus, with books of reference, and other appliances necessary for carrying on Biological research. Those taking Microscopy have the use of microtomes, incubators, reagents, etc. New apparatus is added as occasion demands. The work in Zoölogy is illustrated by marine and fresh-water forms, skeletons, and mounted specimens. In comparative Anatomy and Osteology the work is illustrated by skeletons representing different types of vertebrates. Physiology is illustrated with human skeletons, a life-size French manikin, prepared tissue, and numerous charts. Material for Human Anatomy is received from the State Anatomical Board in Philadelphia, and each student has the opportunity to dissect the whole human body. The work in Materia Medica is illustrated by specimens of crude drugs. The student in Histology and Embryology has a good supply of paraffin and collodion blocks. The work is illustrated with microscopic slides, alcoholic material, and French wax models. Each student is provided with dissecting instruments.

THE MUSEUM.

PROFESSOR NELSON FITHIAN DAVIS, SC. D., *Curator.*

GEORGE N. WILKINSON, *Assistant.*

The University possesses good collections of illustrative material in Botany, Zoölogy, Histology, Geology, Mineralogy, and Materia Medica. Parts of these collections are kept in the laboratories and used in classroom work.

Since the erection of the Carnegie Library two large rooms in this building have been set aside as a museum, and during the year the principal collections will be transferred from the Main College to these rooms. A special effort is being made to secure additions to the museum and objects will be thankfully received, especially such as can be used in laboratory work. Among these may be mentioned: marine and fresh-water forms of life; insects; skeletons of vertebrates; birds and mammals; botanical specimens; crystallized minerals and rocks.

A large collection now owned by the University consists of minerals and rocks, fossils, and Indian relics. It is especially desired to secure collections to illustrate the geology, minerals, flora, and fauna of Pennsylvania. Recently attention has been given to increasing the collection of Pennsylvania birds, and it is hoped that within a short time the University may possess a good series of mammals also.

ART COLLECTION.

MRS. PEARL S. BURPEE, A. B., *Curator.*

A room in the Carnegie Library ninety feet long has been set aside for the Art Collection. The collection consists of about one thousand specimens of paintings, casts, engravings, and heliotypes, and furnish valuable aid in illustrating the principles and history of painting and sculpture.

A course of lectures is given yearly to students of the Sophomore class on the History of Art.

THE LIBRARIES AND READING ROOMS.

Librarian: PROFESSOR WILLIAM E. MARTIN, A. M.

Assistants: FRANKLIN JOSEPH GRONDE AND KATHALYN VOORHIS.

The College Library. The general Library contains about twenty-six thousand volumes, besides many thousand pamphlets. The reading room is connected with the Library, and offers facilities for reading, studying, and writing. During term-time both are open forenoon and afternoon of each day, Sundays and holidays excepted, and both are maintained without extra charge to students. Students in all departments have free access to the shelves, and may draw two books at one time and retain them for two weeks, with the privilege of one renewal, if desired.

For greater convenience of instructors and students, collections of special technical books are also kept in the Laboratories of the Physical and Organic Sciences, and in the Astronomical Observatory.

The Library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in classroom work. In this way, while answering the purpose of general culture, it supplements in great measure the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education.

The Carnegie building for the accommodation of the Library was erected in 1905, the gift of Hon. Andrew Carnegie, D. C. L.

By aid of the Card Catalogue and Pool's Index to Periodicals, all the resources of the Library on any given subject are at once available.

Gifts to the Library of money and of books will be thankfully acknowledged by the librarian.

GENERAL COLLEGE ORDERS.

ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examination on the studies gone over by the class, during a student's absence, will be especially searching, and a high degree of attainment will be required. When a student is absent more than one fourth of the term for any reason, he is required to stand private examination in addition to the examination required of the class. One who is absent during the entire term must also necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterrupted, with the exception of holidays marked in the Calendar, until the last day of the term.

STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitation of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in permanent books, and constitutes the basis for determining the standing of the student during his connection with the institution. Unexcused absences from recitations are counted as zero in making up the weekly averages. *Excused* absences have half the effect in lowering a student's standing as unexcused absences, but a student may, at the option of the professor, do supplementary work to obviate the effect upon his standing of excused absences. At the close of each term an average of these marks is made out, and, if the student's financial obligations to the institution have been met, a report of the scholarship, attendance, and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7; nor is any student recommended to the Board of Trustees for graduation in the general courses if his average standing during either his Freshman or Sophomore year is below 8; or if in his Junior year it is below 8.5; or if in his Senior year it is below 9. The passing grade for graduate students

is 9. No one will be recommended for graduation in the Courses of Jurisprudence, Biology, Chemistry, and in Civil Engineering, nor be granted a certificate in the Law or Medical studies, if his average is below 9.

Conditioned students are not recommended to the Board of Trustees for promotion. Students conditioned on entrance must discharge such conditions within the first year thereafter.

If the student has failed in the studies of a term, he will not be permitted to enter upon the studies of a subsequent term until he has passed in the subjects in which he failed, unless a postponement of examination to a definite time is granted by the Faculty.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude*; students who attain an average of 9.2 or more are graduated *magna cum laude*; those who attain an average of 9 or more are graduated *cum laude*.

EXAMINATIONS.

The dates of the examination are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint, but in no case is an examination granted a student in advance of the time appointed for the examination of the class.

Unless for very good reasons to the contrary, a student who is granted a special examination will be required to pay a fee of five dollars therefor.

PUBLIC WORSHIP.

The College duties of each day are opened with religious services at Bucknell Hall, which all the students of the College are required to attend. Way of Life Meetings in charge of the President are held every Sunday afternoon in Bucknell Hall, when addresses upon religious and moral topics are presented.

Attendance upon public worship in some church in town on Sunday morning is required. Students are required to attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, when a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon and evening services are held in Bucknell Hall, attendance upon which is advised, but not required.

GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These laws must be observed, not only in their letter, but in their spirit. The atmosphere of the institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the institution.

PRESIDENT'S OFFICE HOURS.

The President of the University is in his office in the Main College building, every Tuesday, from 9.30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

OFFICE HOURS FOR THE COLLEGE WOMEN.

The Dean of the Women's Department will meet in his office College women who may desire advice or assistance from him.

VOLUNTARY SOCIETIES.

The Young Men's Christian Association is formed of students of the College. It receives religious periodicals and corresponds with kindred societies. A hall has been appropriated to the Society, and has been suitably furnished for religious meetings.

The Young Women's Christian Association, a voluntary society open to the officers and students of the College and Insti-

tute, meets weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes and College Settlement work are in charge of this Association.

Euepia; Theta Alpha. These are the two Literary Societies of the College for men. They hold meetings for Orations, Essays, and Debates. Each Society has a convenient hall, and by an arrangement of the Faculty will always have a nearly equal number of members.

The Zeta Literary Society is composed of young women admitted to any of the Courses in the College.

The Students' Publication Association is an organization which has in charge the issuing of the *Bucknell Mirror*. This periodical appears monthly during the collegiate year. The same Association publishes the *Commencement News* daily during Commencement week.

Another association of students publishes, weekly, during the school year, the *Orange and Blue*.

The Athletic Association of the college has been formed to encourage and regulate athletic sports. Considerable liberty is allowed the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without having secured the consent of the Faculty.

No student who is deficient in rhetorical or classroom work in any term shall be eligible to the office of manager or director in any student organization, or to be a member of any exhibiting organization, or of any contesting athletic team, or of any publishing or editing board during any subsequent term until such deficiency is made up.

HEALTH AND PHYSICAL CULTURE.

GEORGE W. HOSKINS, PHYSICAL DIRECTOR.

The Tustin Gymnasium has been provided for the physical training and development of young men. Young women have opportunity for physical training in the Gymnasium of the institute. These are now provided with the apparatus usually found in well-furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercise as may be required for his physical development. Regular exercise in the Gymnasium is required of all students during the winter term.

AIDS AND HONORS

PRIZES.

The prizes are awarded to the persons who in the judgment of the several committees attain the highest degree of excellence among the respective competitors, but no prize is bestowed unless a high degree of merit has been attained by the person receiving it.

THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, is awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training at Bucknell Academy.

The prize for 1908 was awarded to Charles Hunter Heacock.

THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize of 1908 was awarded to Eldredge Dale Durrell.

THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1908 was awarded to George Campbell Fetter.

DECLAMATION PRIZES FOR WOMEN.

Prizes for the best declamation, open for competition to the Sophomore and Freshman Classes, were awarded in 1908 respectively to Cora May Wright and Gretchen Annette Radack.

THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded in 1908 to Newton Cromwell Fetter.

The corresponding prize for Women was awarded in 1908 to Sara Ellen Walters.

THE JUNIOR DEBATE PRIZE.

Prizes are awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The first prize was divided in 1908 between Charles Stilwell Roush and Charles Carpenter Fries.

THE HOLLOPETER PRIZE.

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

The prize was awarded in 1908 to John Clyde Hostetter.

THE HERBERT TUSTIN PRIZE.

In memory of his deceased son, the late Professor Francis Wayland Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The first prize was awarded in 1908 to Winfield Scott Booth; and the second to Charles Lucas Bromley.

THE HERBERT GOODMAN BARROWS PRIZE.

In memory of his son, the Reverend William Barrows, A. M., of the Class of 1867, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT GOODMAN BARROWS PRIZE FUND, the interest of which is to be forever paid annually as two prizes of equal amounts to the student or two students of the Senior Class who shall have attained the highest standing, respectively, in the Latin and in the Greek language and literature (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The prize for excellence in Greek was awarded in 1908 to Roy Signor Daubert; the prize for excellence in Latin was awarded in 1908 to Margaret Ellen Kalp.

THE CHAPLAIN J. J. KANE PRIZE.

The Reverend James J. Kane, A. M., Chaplain of the United States Navy, and a graduate from the Theological Department of this University, of the Class of 1867, has established a prize which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded in 1908 to Ralph Womelsdorf Haller.

THE ANNA MOORE HARE PRIZE.

In memory of his daughter, Anna Moore Hare, the Reverend Calvin Aurand Hare, A. M., has established an annual prize in Logic, to be awarded to that student at graduation who shall have done the best work in Logic, regard being had both to the amount and the quality of the work.

The prize was awarded in 1908 to Chester Penn Higby.

SCHOLARSHIPS.

I. THE BUCKNELL SCHOLARSHIPS.

The William Bucknell Scholarships, twenty in number and of \$1,000 each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in life. The income from this fund is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor Rockwood.

II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

III. THE LIVINGSTON SCHOLARSHIPS.

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the ministry.

IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of O. W. Longan, Esq., is available for a student for the ministry from Lycoming County, Pennsylvania.

V. THE LEWIS E. JONES SCHOLARSHIP.

Was established from a legacy of the late Lewis E. Jones, and is available for students of Welsh descent to the amount of the income from five hundred dollars.

VI. THE JOHN HOWARD HARE SCHOLARSHIP.

Established by the Reverend Calvin Aurand Hare, A. M., in memory of his son, John Howard Hare, available for a student for the ministry upon recommendation of the Pennsylvania Baptist Education Society and the President of the University.

VII. THE VELOLA E. HALL SCHOLARSHIP.

Established by the Reverend Henry Chandler Hall, A. M., Class of 1882, in memory of his daughter, Velola E. Hall, A. B., Class of 1904, available for a student in the Women's College.

VIII. THE MEDICO-CHIRURGICAL SCHOLARSHIP.

The Medico-Chirurgical Medical College of Philadelphia offers a scholarship covering tuition in that college to the student from Bucknell University who evinces the best preparation and aptitude for medical work.

IX. THE PHILADELPHIA ALUMNÆ SCHOLARSHIP.

This scholarship, founded by the Philadelphia Alumnæ Club, is available for a young woman student from Philadelphia.

X. THE GENERAL MILLER SCHOLARSHIPS.

Ten scholarships have been established by Major-General Charles Miller, A. M., to be awarded to worthy members of the graduating class.

XI. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending college. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

EXTRA STUDIES.

In order to promote special scholarship in the several departments of study the following provision has been made:

1. Any student who has obtained an average of 9 in the studies of the previous term may take special work in any department of the College under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of 9 in all the studies of the current term, and pass a satisfactory examination in the voluntary study, the work shall be credited to him.

4. Only one such study may be pursued by any one student during any one term. A student may also take two such minor studies in the Summer vacation.

5. The Professor with whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations at the Professor's option.

6. The amount and quality of minor work shall be taken into account in awarding honors at graduation, but is not counted toward any degree.

EXPENSES.

The College charges amount to \$110 per annum, for those who room in the College buildings, and \$100 for those who room in the town. The College charges include library fee, gymnasium fee, and other incidental fees common to all students, as well as tuition. Tuition is rated at \$50 per annum, and is included in the College charges. Students in the Course in Civil or Electrical Engineering are charged \$5 per term extra. Students in the other Courses who take an engineering subject are charged the same rates as students in engineering. This charge is for the regular work; when a fourth study or honor study is taken, an extra charge is made. Graduation fee and diploma, \$10. Masters' Degree and Diploma, \$10.

The Study Rooms in the Main College are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled.

An extra charge is made for electric lighting of private rooms.

An extra charge ranging from \$5 to \$10 per term is also charged for rooms in the East and in the West College.

An additional charge is made for rooms cared for by the Institution.

Young men in the Collegiate Department, who so desire, can have furnished rooms in the West College, with board in the Academy.

Young women in the Collegiate Department room and board in the Women's College. The standard annual charge for board, tuition, furnished room, heating, lighting, is \$280. An extra charge for choice rooms in the Bucknell Cottage and in New Cottage, ranging from \$5 to \$10 per term, is made.

The assignment of rooms is for one year, and is made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens. A deposit of \$10 is required when a room is chosen. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

In the Laboratories students pay for chemicals used and for apparatus broken or damaged. In the chemical laboratory \$5 per term is charged for gas, water, and general chemicals for each course, except Courses 1 and 2, for which the charge is \$2.50. A deposit of \$5 per course is required to cover breakage and cost of extra chemicals.

A small fee is charged also in each of the elective courses in the departments of Mechanics and of Organic Science and in Surveying and Engineering, for the use of instruments and for material used.

Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

Students can board in clubs at a cost of from \$2.00 to \$2.50 per week. Boarding can be obtained in private families at \$3.00 or \$4.00 per week, or at the table of the Bucknell Academy at \$3.50 per week. Washing is done at 25 cents per week. No self-boarding is allowed in the College buildings.

FIFTY-EIGHTH ANNUAL COMMENCEMENT.

WEDNESDAY, JUNE 17, 1908.

HONORS AT GRADUATION.

ORATIONS SUMMA CUM LAUDE.

WALTER HENRY BERTIN,	MARGARET ELLEN KALP,
WINFIELD SCOTT BOOTH,	ROBERT BRUCE MORRIS,
CHARLES LUCAS BROMLEY,	WALTER LEROY NOLL,
HELEN MARR FORREST,	WILL CARLETON SPROUT,
RALPH WOMELSDORF HALLER,	ROBERT MCCURDY STEELE,
JOHN FARL HUMMER,	JOHN RAYMOND STRATTON,
GEORGE EDWARD WEBSTER.	

ORATIONS MAGNA CUM LAUDE.

BENJAMIN ISAAC BRODY,	MARGARET WEDDELL PANGBURN,
WALTER MADISON CORLL,	BEATRICE RAE RICHARDS,
JOHN WORTH CURE,	OLIVE CROZER RICHARDS,
DAVID ALBERT GREEN,	GRACE VIRGINIA ROYER,
CHESTER PENN HIGBY,	HARRY CLAUDE SEILER,
JOHN CLYDE HOSTETTER,	JAMES HENRY SHOEMAKER,
MAY ELIZABETH JONES,	WALLACE JAMES SNYDER,
CHESTER ARTHUR NIPLE,	DONALD ALEXANDER STEELE,
HENRY CLYDE THOMPSON.	

ORATIONS CUM LAUDE.

DANA MELISSA BOWER,	ONESIMUS GEORGE LANGFORD,
JOHN BENJAMIN BOYER,	CLARENCE EDWARD LONG,
CHARLES ROCKWELL COLE,	JAMES LOOSE, JR.,
EDWARD CARROLL CONDUCT,	EDWIN REYNOLDS MANCHESTER,
JOSEPH LEWIS COON,	BERTRAM HENRY OLMSTEAD,
STEPHEN GARDNER DUNCAN,	LUTHER ORVILLE PIERSOL,
JAMES EDWARD ELLIOTT,	JAMES FRANCIS SHEEHAN,
JOHN ROY FARR,	JOSEPH RIEGEL SHULTZ,
JAMES FULLER HAYES,	ANNA STAGE,
JAMES HERB,	HELEN FULKERSON TIFFANY,
JENNIE HOPWOOD,	MERLE BUSH WHITNEY,
HORACE BROWN KING,	VIOLETTA WOLFE.

ORATIONS.

CARELTON GILFLEN APP,	PHILIP MUSSER IREY,
CHARLES BALDWIN,	AELFRIC JAMES,
ELMER KEISER BOLTON,	GEORGE WASHINGTON KERSCHNER,
WILLIAM STEWART DUNCAN,	JENNIE MACLAGGAN,
CHARLES DELANCEY FERGUSON,	ELSIE OWENS,
HARRY STEPHEN FURST,	CASIMIR EMILE PERRIER,
HARRY CHESTER GARDNER,	EDWIN LEROY ROYER,
GEORGE ARTHUR GEBHARDT,	BARTON RUNYAN SAVIDGE,
JOHN VANDEVERE GIBNEY,	MARION ELLSWORTH SAYRE,
BENJAMIN THOMAS HARRIS,	EDNA ALICE SEAMAN,
DAVID JACKSON HAWK,	REUBEN WELTE SHRUM,
JOSEPH WELLS HENDERSON,	PAUL GEORGE STOLZ,
EDWARD RICHARDSON INNES,	MELLIE ARMSTRONG WESTCOTT,
JOHN J. WILLIAMS.	

DEGREES CONFERRED ON EXAMINATION.

MASTER OF ARTS.

CHARLES FRANKLIN BIDELSPACHER,	LEWIS COLUMBUS HYLBERT,
MARY ALMA GARRISON,	EDITH HEDGES KELLEY,
CHAUNCEY EUGENE BROCKWAY,	ELIZABETH BRITON MEEK,
LEVI MORRILL HAINER,	CARL LYON MILLWARD,
FREDERICK B. HARDING,	EARL AUSTIN MORTON,
COIT ROSCOE HOECHST,	JOHN YEOMAN SINTON,
SPENSER TILLINGHAST HARRIS,	SYDNEY HOMER SMITH.

MASTER OF LITERATURE.

ELLA BEALE, LIT. B.,	LILLIAN BEALE, LIT. B.
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BACHELOR OF ARTS.

WALTER HENRY BERTIN,	MARGARET ELLEN KALP,
ELMER KEISER BOLTON,	GEORGE WASHINGTON KERSHNER,
WINFIELD SCOTT BOOTH,	HORACE BROWN KING
CHARLES LUCAS BROMLEY,	(Jurisprudence),
CHARLES ROCKWELL COLE	ONESIMUS GEORGE LANGFORD,
(Jurisprudence),	EDWIN REYNOLDS MANCHESTER
WALTER MADISON CORLL,	(Jurisprudence),
JAMES EDWARD ELLIOTT,	MARGARET WEDDELL PANGBURN,
JOHN ROY FARE	BEATRICE RAE RICHARDS,
(Jurisprudence),	MARION ELLSWORTH SAYRE,

BACHELOR OF ARTS—Continued.

HARRY STEPHEN FURST,	JOSEPH RIEGEL SCHULTZ,
BENJAMIN THOMAS HARRIS,	WILL CARLETON SPROUT,
JOSEPH WELLS HENDERSON,	JOHN RAYMOND STRATTON
CHESTER PENN HIGBY,	(Jurisprudence),
MERLE B. WHITNEY.	

BACHELOR OF PHILOSOPHY.

CARLTON GILFLEN APP,	PHILIP MUSSER IREY,
DANA MELISSA BOWER,	ROBERT BRUCE MORRIS,
EDWARD CARROLL CONDUCT,	EDWIN LEROY ROYER,
JOSEPH LEWIS COON,	GRACE VIRGINIA ROYER,
JOHN WORTH CURE,	EDNA ALICE SEAMAN,
STEPHEN GARDNER DUNCAN,	ROBERT MCCURDY STEELE,
JENNIE HOPWOOD,	MELLIE ARMSTRONG WESTCOTT,
VIOLETTA WOLFE.	

DEGREES IN SCIENCE.

I. THE SECOND DEGREE IN GENERAL SCIENCE.

FREDERIC RUSSELL BOWER,	CHARLES DAVID COOPER,
HARRY GARFIELD SNAVELY.	

II. FIRST DEGREE IN GENERAL SCIENCE.

CHARLES BALDWIN,	AELFRIC JAMES,
JOHN BENJAMIN BOYER,	MAE ELIZABETH JONES,
BENJAMIN ISAAC BRODY,	JENNIE MACLAGGAN,
WILLIAM STEWART DUNCAN,	BERTRAM HENRY OLNSTEAD,
HELEN MARR FORREST,	ELSIE OWENS,
HARRY CHESTER GARDNER,	CASIMER EMILE PERRIER,
GEORGE ARTHUR GEBHART,	OLIVE CROZER RICHARDS,
DAVID ALBERT GREEN,	BARTON RUNYAN SAVIDGE,
RALPH WOMELSDORF HALLER,	JAMES HENRY SHOEMAKER,
DAVID JACKSON HAWK,	REUBEN WELTY SHRUM,
WILLIAM CURRIE HULLEY,	ANNA STAGE,
JOHN FARL HUMMER,	PAUL GEORGE STOLZ,
EDWIN RICHARDSON INNES,	HELEN FULKERSON TIFFANY,
GEORGE EDWARD WEBSTER.	

III. FIRST DEGREE IN BIOLOGY.

WALTER LEROY NOLL,	HARRY CLAUDE SEILER.
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IV. FIRST DEGREE IN CHEMISTRY.

CHARLES DELANCEY FERGUSON, JOHN CLYDE HOSTETTER,
WALLACE JAMES SNYDER.

V. FIRST DEGREE IN CIVIL ENGINEERING.

CLARENCE EDWARD LONG,	CHESTER ARTHUR NIPLE,
JAMES LOSE, JR.,	LUTHER ORVILLE PIERSOL,
JOHN VANDEVERE GIBNEY,	JAMES FRANCIS SHEEHAN,
JAMES FULLER HAYES,	HENRY CLYDE THOMPSON,
JAMES HERB,	JOHN JAMES WILLIAMS.

VI. FIRST DEGREE IN ELECTRICAL ENGINEERING.

DONALD ALEXANDER STEELE.

HONORARY DEGREES CONFERRED.

DOCTOR OF DIVINITY.

CHARLES A. SOARS, A. M., B. D.

DOCTOR OF SCIENCE.

REED BURNS, M. D.

MASTER OF ARTS.

THOMAS J. COLLINS (IN COURSE).
WALTER LIDDELL HILL.
MARGARET TUSTIN O'HARRA.
LAURA K. SNYDER.

COMMENCEMENT ADDRESSES.

Baccalaureate Sermon	THE PRESIDENT
Sermon, Education Society	REV. JOHN SNAPE
Address before the Literary Societies,	
	COMMODORE AARON V. WADHAMS, U. S. N.
Address before the Alumni Association,	
	REV. ANDREW FREEMAN ANDERSON, A. M.
Poem before the Alumni Association.....	GRACE GUTHRIE, PH. D.
Annual Address.....	GEORGE H. FERRIS, PH. D., D. D.
Address to the College Class	THE PRESIDENT

TEACHERS' PERMANENT CERTIFICATES.

Awarded by the State of Pennsylvania to Graduates of Bucknell College, 1907-1908:—

JOHN BENJAMIN BOYER, SC. B.
 CLAIRE MARIE CONWAY, A. B.
 EMILY REBECCA EBLING, A. B.
 CURTIS COOK LESHER, PH. B.
 THOMAS BEEBER LOCKARD, SC. B.
 IDA EVELINE LUCHSINGER, A. B.
 JESSIE D. MCFARLAND, SC. B.
 WARREN MARTS, A. B., A. M.
 ROBERT BRUCE MORRIS, PH. B.
 WALTER LEROY NOLL, SC. B.
 HELENA MAE OLDS, PH. B.
 JAMES THEODORE PARK, SC. B.
 GERTRUDE WILBUR ROOS, SC. B.
 JAMES WILSON SNYDER, A. B., A. M.
 CLIFFORD VERNON WILLIAMSON, PH. B.

BACCALAUREATE THESES.

1. The Idea and Development of Nationality,
CARLTON GILFILEN APP.
2. Inherited and Acquired Character,
CHARLES BALDWIN.
3. The Origin of the State,
WALTER HENRY BERTIN.
4. The Laws and Duties to the State,
ELMER KEISER BOLTON.
5. The Doctrine of Innate Ideas,
WINFIELD SCOTT BOOTH.
6. The Quarrel Between Byron and Southey,
DANA MELISSA BOWER.
7. The Political Boss,
JOHN BENJAMIN BOYER.
8. The Equality of Men,
BENJAMIN ISAAC BRODY.
9. The Development of the Idea of Immortality in the Old Testament,
CHARLES LUCAS BROMLEY.
10. The Manifestation of Genius,
CHARLES ROCKWELL COLE.
11. A Comparison of Plato's and McKim's Ideas,
EDWARD CARROLL CONDUCT.
12. Werner's Solution of the Valence Problem,
JOSEPH LEWIS COON.
13. Divine Immanence,
WALTER MADISON CORLL.
14. The Evolution of Religion,
JOHN WORTH CURE.
15. Duties of a Good Citizen,
ROY SIGNOR DAUBERT.
16. The Origin of Religion,
STEPHEN GARDNER DUNCAN.
17. The Local Option Question in Pennsylvania,
WILLIAM STEWART DUNCAN.
18. The Social Conditions in the Mountain Districts of Kentucky,
JAMES E. ELLIOT.

19. Family Support,
JOHN ROY FARR.
20. Catalysis and the Theory of Chemical Change,
CHARLES DELANCEY FERGUSON.
21. John Keats,
HELEN MARR FORREST.
22. The Crime of Divorce,
HARRY STEPHEN FURST.
23. The Position of Woman in Society,
HARRY CHESTER GARDNER.
24. Training in Ethical Science,
GEORGE ARTHUR GEBHARDT.
25. Location and Construction of Dams,
JOHN VANDEVERE GIBNEY.
26. Psychology in Education,
DAVID ALBERT GREEN.
27. Revolutionary Element of "Storm and Stress,"
RALPH WOMELSDORF HALLER.
28. The Divine Benevolence from the Light of Nature,
BENJAMIN THOMAS HARRIS.
29. What Forestry Has Done,
DAVID JACKSON HAWK.
30. Our Common Roads: Their Construction and Importance,
JAMES FULLER HAYES.
31. Political Factions and Their Results in the Greek States,
JOSEPH WELLS HENDERSON.
32. Investigation of Public Water Supplies,
JAMES HERB.
33. The Probable Efficiency of the Postal Savings Bank System in
the United States,
CHESTER PENN HIGBY.
34. The Evolution of the Educational Ideal,
JENNIE HOPWOOD.
35. A Plea for the Modern Food Preservation,
JOHN CLYDE HOSTETTER.
36. The Function of War—Past and Present,
JOHN FARL HUMMER.
37. The Forms of Human Marriage,
EDWARD RICHARDSON INNES.
38. Mormonism, .
PHILIP MUSSER IREY.
39. Malleable Cast Iron,
AELFRIC JAMES.

40. Woman in Education,
MAE ELIZABETH JONES.
41. Roman Life as Depicted by Juvenal,
MARGARET ELLEN KALP.
42. The Advance of Woman in the Social Scale,
GEORGE WASHINGTON KERSCHNER.
43. Railway Culverts,
CLARENCE EDWARD LONG.
44. The Passion Week in the Life of Jesus,
ONESIMUS GEORGE LANGFORD.
45. The Heating and Ventilating of Schoolrooms,
JAMES LOSE, JR.
46. The Jury System: Has It Outlived Its Usefulness?
EDWIN REYNOLDS MANCHESTER.
47. The Early Edinburgh Review,
JENNIE MACLAGGAN.
48. Confucianism: Its Retarding Influence on Chinese Development,
ROBERT BRUCE MORRIS.
49. Mines and Mining: Recent Improvements,
CHESTER ARTHUR NIPLE.
50. The Function of Religious Expression,
WALTER LEROY NOLL.
51. Embryological Development and Its Relation to Evolution,
ELSIE OWENS.
52. The Worship of Vesta and Its Influence on the Position of
Woman,
MARGARET WEDDELL PANGBURN.
53. Natural Selection in Human Society,
CASIMER EMILE PERRIER.
54. European and American Bridge Building,
LUTHER ORVILLE PIERSOL.
55. Society and the Individual,
BEATRICE RAE RICHARDS.
56. The State and Public Morality,
OLIVE CROZER RICHARDS.
57. Lewis Pasteur and His Contributions to Science,
EDWIN LEROY ROYER.
58. Moliere: His Life and Works,
GRACE VIRGINIA ROYER.
59. The Evolution of Punishment,
BARTON RUNYAN SAVIDGE.
60. Ethics as a Political Science,
MARION ELLSWORTH SAYRE.

61. The Social and Moral Life of the Early Romans,
EDNA ALICE SEAMAN.
62. Retrogressive Development in Nature,
HARRY CLAUDE SEILER.
63. Development of Water Supplies,
JAMES FRANCIS SHEEHAN.
64. Some Ethical Principles of Aristotle Compared with Modern
Ethics,
REUBEN WELTY SHRUM.
65. Aristotle on Monopolies,
JOSEPH RIEGEL SHULTZ.
66. The Mercury-in-Glass Thermometer as a Standard,
WALLACE JAMES SNYDER.
67. The Relation of Present-day Democracy to Plato's Aristocracy,
WILL CARLETON SPROUT.
68. The Function of Religious Beliefs in the Evolution of Society,
ANNA STAGE.
69. The Rise and Development of the Electric Railway,
DONALD ALEXANDER STEELE.
70. Economic Importance of the Public Domain,
ROBERT MCCURDY STEELE.
71. Man's Æsthetic Activity,
PAUL GEORGE STOLTZ.
72. The Economic Effect of the Civil War,
JOHN RAYMOND STRATTON.
73. Disposal of Sewage,
HENRY CLYDE THOMPSON.
74. The Influence of the Human Mind on the Evolution of Society,
HELEN FULKERSON TIFFANY.
75. The Nature of Memory and Its Place in Intellectual Development,
GEORGE EDWARD WEBSTER.
76. Psychology of Insanity,
MELLIE A. WESTCOTT.
77. Environment: A Factor in Education,
MERLE B. WHITNEY.
78. Methods of Mining Anthracite,
JOHN J. WILLIAMS.
79. Differential Characteristics of Sex,
VIOLETTA WOLFE.

THE ACADEMY.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

BENJAMIN F. THOMAS, A. M., PRINCIPAL,
LATIN.

MARTIN LINNAEUS DRUM, PH. B.,
MATHEMATICS.

PHARES GROSS HESS, A. M.,
SCIENCE AND GERMAN.

HENRY TAYLOR MEYER, A. B.,
ENGLISH.

JOSEPH LINCOLN CHALLIS, A. M.,
HISTORY.

SYDNEY HOMER SMITH, A. M.,
GREEK AND LATIN.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR OF THE UNIVERSITY.

ACADEMY STUDENTS.

FOURTH FORM.

CLASSICAL COURSE.

NAME.	RESIDENCE.	ROOM.
GEORGE FREEMAN HAINES,	<i>Winfield.</i>	Winfield
ANDREW M. LOWRY,	<i>Dewart.</i>	No. 10, Main Hall
JAMES FOCHT MCCLURE,	<i>Lewisburg.</i>	University Avenue
JOHN MACCULLOCH,	<i>Punxsutawney, R. F. D.</i>	No. 12, Main Hall
HAROLD AUGUSTUS SHAFFER,	<i>Lewisburg.</i>	South Second Street

LATIN SCIENTIFIC COURSE.

DONALD DUFFERIN MULHERN,	<i>Jamaica, Vt.</i>	No. 7, Main Hall
STERLING THOMAS POST,	<i>Dalton, R. F. D. No. 3.</i>	No. 12, Main Hall

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CHANNING PONTIUS DERR,	<i>Lewisburg.</i>	Market Street
ALAN FREDERICK ENGLISH,	<i>Shamokin.</i>	No. 22, East Hall
PHILIP JAMES FESSENDEN,	<i>Lewisburg.</i>	North Third Street
HOWARD VOELKLER FISHER,	<i>Tamaqua.</i>	No. 19, East Hall

NAME.	RESIDENCE.	ROOM.
HARRY GUNDY PAWLING,	<i>Bucknell.</i>	Bucknell
ROBERT EDWARD THOMAS,	<i>Scranton.</i>	No. 11, Main Hall

THIRD FORM.

CLASSICAL COURSE.

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WALTER WILLIAM HARRIS,	<i>Lewisburg.</i>	University Avenue
WILLIAM NASSAU DAWSON	MACCULLOUGH,	No. 6, Main Hall
	<i>Scranton.</i>	
THEODORE SAPP OWEN,	<i>Philadelphia.</i>	No. 9, Main Hall
CLAY SHOEMAKER SANDERS,	<i>Mifflinburg.</i>	Mifflinburg
CHARLES LOY SANDERS,	<i>Mifflinburg.</i>	Mifflinburg
ELLIS CALVIN WINTERS,	<i>Dewart.</i>	Dewart

SCIENTIFIC COURSE.

GUSTAVO BERNARD, JR.,	<i>Havana, Cuba.</i>	No. 1, East College
JACOB EVANS BOYER,	<i>Linfield,</i>	No. 20, West College
CLAUDE SWEIGERT BRUNNER,	<i>Reinholds Station.</i>	No. 7, Main Hall
HARRY EARLE CAMPBELL,	<i>Shunk.</i>	No. 19, East Hall
ELMER WORTHINGTON DOUDS,	<i>Ellwood City.</i>	No. 65, West College
WALTER DEMPSTER GEMMILL,	<i>Allenwood.</i>	Allenwood
WILLIAM THOMAS GOODWIN,	<i>Coatesville.</i>	No. 7, Main Hall
LEON CLYDE HOUGHTON,	<i>Lewisburg.</i>	31 North Eighth Street

NAME.	RESIDENCE.	ROOM.
THOMAS HOUGHTON,	<i>Lewisburg.</i>	South Seventh Street
ELMER SLATER HULL,	<i>Montgomery.</i>	Montgomery
HENRY ELLSWORTH KERBEL,	<i>Ashland.</i>	Market Street, Lewisburg, Pa.
FORREST RUCKLE KRUMM,	<i>Watsonstown.</i>	Watsonstown
JOHN AUGUSTUS LEISER,	<i>Milton, R. F. D. No. 4.</i>	Milton
RAYMOND PIERCE MAHER,	<i>Tower City.</i>	No. 13, East Hall
CARROLL ROLLAND MUFFLEY,	<i>Turbotville.</i>	No. 8, Main Hall
JOSEPH HENRY OVARES,	<i>Havana, Cuba.</i>	101 South Fifth Street, Lewisburg
NORMAN EDGAR PAGE,	<i>Oberlin.</i>	No. 8, Main Hall
EDWARD CLARENCE POETH,	<i>Lewisburg.</i>	Market Street
WILLIAM JOSEPH POTTS,	<i>Renovo.</i>	No. 21, East Hall
HORACE FLOYD QUICK,	<i>Trenton, N. J.</i>	No. 22, East Hall
ELI SELSER SENTMAN,	<i>Philadelphia.</i>	No. 7, Main Hall
DILLINGER HIXON SHAFFER,	<i>Greensburg.</i>	No. 9, East Hall
ARTHUR RAYMOND THOMAS,	<i>Lewisburg.</i>	East Market Street
PHILIP ANDREW WALTZ,	<i>Williamsport.</i>	No. 14, East Wing
DAVID CHARLES WILLIAMS,	<i>Scranton.</i>	No. 5, Main Hall
STEPHEN STANTON WISSER,	<i>Reading.</i>	No. 5, Main Hall

SECOND FORM.

CHARLES JACOB APPLGATE,	<i>Catasauqua.</i>	No. 6, Main Hall
JACOB HENRY AUSLANDER,	<i>Uniontown.</i>	No. 10, East Hall

NAME.	RESIDENCE.	ROOM.
CHENEY KIMBER BOYER,	<i>Homestead.</i>	No. 2, East Hall
CHARLES WARREN BROWN,	<i>Lewisburg, R. F. D.</i>	Lewisburg
WILLIAM N. EDMUNDS,	<i>Nanticoke.</i>	No. 17, East Hall
HENRY FRANKLIN ERDLEY,	<i>Lewisburg, R. F. D. No. 1.</i>	Lewisburg
FREDERICK HARRISON FAHRINGER,	<i>Pottsville.</i>	No. 4, Main Hall
HENRY DWIGHT GALBREATH,	<i>Indiana.</i>	No. 9, East Hall
JOHN JUSTIN GILLETTE,	<i>Thompson.</i>	No. 2, East Hall
CLAIRE GEPHART GROOVER,	<i>Lewisburg, R. F. D. No. 1.</i>	Lewisburg
WILLIAM HENRY JONES,	<i>Shaft.</i>	No. 14, West College
GEORGE BEVERLY LINEBURG,	<i>Montandon.</i>	Montandon
CHARLES ALBERT MARTIN,	<i>Lewisburg.</i>	52 South Seventh Street
DAVID GEORGE MORSE,	<i>Wilburton.</i>	No. 4, Main Hall
PERCY BROWN SMITH,	<i>Greensburg.</i>	No. 15, East Hall
HOWARD BENJAMIN TRAUGER,	<i>Scranton.</i>	No. 11, Main Hall
MICHAEL HIRAM WOLFE,	<i>Lewisburg, R. F. D. No. 1.</i>	Lewisburg
HYMAN ESOR ZAGOTZKER,	<i>Delta.</i>	No. 9, Main Hall

FIRST FORM.

DONALD ROSS DUNKLE,	<i>Lewisburg.</i>	East Market Street
DE FOREST HAROLD FRANKLIN,	<i>Jermyn, R. F. D.</i>	No. 10, Main Hall
PAUL CHARLES HARTER,	<i>Loganton.</i>	No. 17, East Hall

NAME.	RESIDENCE.	ROOM.
MILLER ALANSON JOHNSON,	<i>Lewisburg.</i>	University Avenue
EDWARD MALDONADO,	Mrs. Van Gundy, S. 6th St., <i>Merida Yucatan, Mexico.</i>	
WILLIAM CHARLES MARSHALL,	<i>Kittanning.</i>	No. 8, East Hall
GEORGE FUNSTON MILLER,	<i>Lewisburg.</i>	South Second Street
JAMES CLARK MILLER,	<i>Jeanette.</i>	No. 8, East Hall
CHARLES ALFORD MOYER,	<i>Tamaqua.</i>	No. 11, East Hall
NESTOR LEWIS OVARES,	101 South Fifth Street, <i>Havana, Cuba.</i>	Lewisburg
ALFRED TENNYSON STEININGER,	<i>Lewisburg.</i>	West Market Street
HENRY CHARLES WOLFE,	Corner George and Sixth Streets <i>Lewisburg.</i>	

STUDENTS PURSUING SELECT STUDIES.

THOMAS SHOEMAKER BROWN,	<i>Lewisburg.</i>	Brown Street
JOHN WATSON CLARK,	<i>Glen Campbell.</i>	No. 35, West College
ALBERT MAHLAN COBER,	<i>Garrett.</i>	No. 8, West Wing
FREDERICK LINCOLN CONDUCT,	East Market Street, <i>Trenton, N. J.</i>	Lewisburg
GEORGE DONALD COOK,	<i>Millmont.</i>	No. 8, Main Hall
NORMAN ROBERT DAVIS,	<i>Allenwood.</i>	Allenwood
HORATIO NELSON DEMAREST,	<i>Renovo.</i>	No. 21, East Hall
ELLMER ELLSWORTH FAIRCHILD,	<i>Lewisburg, R. F. D. No. 2.</i>	Lewisburg
FREDERICK KNAPP GETZ,	<i>Lewisburg.</i>	North Fourth Street
JOHN WESLEY GRAVES,	<i>Indiana.</i>	No. 8, East Hall

NAME.	RESIDENCE.	ROOM.
MAX GROSSMAN,	<i>Mt. Carmel.</i>	No. 10, East Hall
JOHN GRUNINGER,	<i>Philadelphia.</i>	No. 51, West College
RAYMOND BLAINE HUGHES,	<i>Strong.</i>	No. 13, East Hall
HOWARD JOHNSON,	<i>Wilmington, Del.</i>	No. 30, East Wing
DONALD HOWARD McMASTERS,	<i>Indiana.</i>	No. 20, East Hall
JEROME LUNDY PAULHAMUS,	<i>Dewart.</i>	Dewart
WALTER AMBROSE PENNINGTON,	<i>Millville, N. J.</i>	No. 23, East Hall
GEORGE WILLIAM POTTS,	<i>Greensburg.</i>	No. 14, East Hall
GEORGE PROTHERO,	<i>Indiana.</i>	No. 20, East Hall
CHARLES SCOTT PUGH,	<i>Williamsport.</i>	No. 20, East Hall
GEORGE ALLEN RHOADS,	<i>Shamokin Dam.</i>	Shamokin Dam
FRANK RAYMOND RICHARDS,	<i>Crafton.</i>	No. 11, East Hall
ROBERT LEVI ROOKE,	<i>Winfield.</i>	Winfield
FREDERICK WILFRED SLACK,	<i>Bucknell.</i>	Winfield
CLARENCE HENRY SMITH,	<i>Dunbar.</i>	No. 4, West College
PERCY BROWN SMITH,	<i>Greensburg.</i>	No. 15, East Hall
CHARLES HAMILTON STEELE,	<i>Washington.</i>	No. 23, West Wing
HENRY SMITH STEELE,	<i>Greensburg.</i>	No. 14, East Hall
PAUL LOWERY STEIN,	<i>Lewisburg.</i>	North Third Street
CLARENCE ARCHIE VORIS,	<i>Milton.</i>	Milton
PERRY ELLSWORTH WALTER,	<i>Patton.</i>	West College

SUMMARY.

The Fourth Form, Classical.....	5
Latin Scientific.....	2
Scientific.....	7
	—14
 The Third Form, Classical.....	7
Scientific.....	26
	—33
The Second Form.....	18
The First Form.....	12
Students Pursuing Select Studies.....	31
	—61
Total in the Academy.....	108

Students enrolled in other departments of the University who receive instruction in the Academy classes:

Greek of the Fourth Form.....	3
Third Form.....	3
Latin of the Fourth Form.....	2
Science Subjects.....	16
	—24
Total receiving instruction in Academy classes,	132

COURSES OF STUDY.

The Academy is designed to fit pupils for College, for Teaching, or for Business. It offers three Courses of Study.

I. The Classical Course extends through four years and is arranged to meet the requirements for admission to College. The Study of Latin begins with the First Form and continues for four years and two terms. The study of Greek begins with the Third Form and continues for two years and one term. Notwithstanding the time given to these branches of study, fully one half of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

II. The Latin Scientific Course extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek division substitutes the Greek of the Third and Fourth Forms for the Latin and includes Historical and Scientific subjects.

III. The Scientific Course extends through four years and prepares for the Courses in General Science, in Biology, in Chemistry, and in Civil and Electrical Engineering in College. For the Vergil and the Cicero of the Latin Scientific Course, it substitutes one term of Advanced English, one term of Chemistry, and two years of German.

Students who are able to accomplish more work in the allotted time than is required by the Course may pursue honor work in the Classics by reading, under the instructor's direction, Cæsar's Civil War, Cicero's Letters, or Vergil's Eclogues, and Books IV, V, VI of the Iliad, or the Cyropædia.

Students will be admitted to the Form for which they are prepared.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific or the Latin Scientific Course well adapted to prepare them for teaching or for business.

Special classes in History and Literature are maintained to meet adequately the requirements of applicants for examination and registration as students at law, under the rules adopted by the Supreme Court of Pennsylvania.

CURRICULA

Arabic numerals indicate the number of recitations a week
in each subject.

I. THE CLASSICAL COURSE.

FIRST FORM.

I. TERM—Algebra, 5, Latin, 5,	U. S. History, 5, English, 5.
II. TERM—Algebra, 5, Latin, 5,	English, 5, U. S. History, 5,
III. TERM—Geometry, 5, Latin, 5,	U. S. History, 5, English, 5.

SECOND FORM.

I. TERM—Higher Arithmetic, 5, Latin, 5,	Ancient History, 5, Rhetoric, 5.
II. TERM— { Bookkeeping, Commercial Arithmetic, 5, Latin, 5,	Ancient History, 5, Rhetoric, 5.
III. TERM—Algebra, 5, Cæsar, 5,	Ancient History, 5, Literature, 5.

THIRD FORM.

I. TERM—Algebra, 5, Cæsar, 5,	Greek, 5, Elocution, 5.
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II. TERM—Algebra, 5,
Cæsar, 5,

Greek, 5,
Literature, 5.

III. TERM—Algebra, 5,
Cicero, 5,

Anabasis, 5,
Literature, 5.

FOURTH FORM.

I. TERM—Geometry, 5,
Vergil, 5,

Cicero, 5,
Anabasis, 5.

II. TERM—Geometry, 5,
Vergil, 5,

{ Ovid, } 5,
{ Cicero, }
Iliad, 5.

III. TERM—Physics, 5,
Vergil, 5,

Iliad, 5,
Anabasis, 5.

II. THE LATIN SCIENTIFIC COURSE.

FIRST FORM.

I. TERM—Algebra, 5,
Latin, 5,

History, 5,
English, 5.

II. TERM—Algebra, 5,
Latin, 5,

English, 5,
Drawing, 5.

III. TERM—Geometry, 5,
Latin, 5,

History, 5,
English, 5.

SECOND FORM.

I. TERM—Higher Arithmetic, 5,
Latin, 5,

Ancient History, 5,
Rhetoric, 5.

II. TERM—

{ Bookkeeping,
Commercial Arithmetic, 5,
Latin, 5,

Ancient History, 5,
Rhetoric, 5.

- III. TERM—Algebra, 5, Literature, 5,
Cæsar, 5, Ancient History, 5.

THIRD FORM.

- I. TERM—Algebra, 5, Elocution, 5,
Cæsar, 5,
German, 5, or History of England, 5.
- II. TERM—Algebra, 5, Literature, 5,
Cæsar, 5,
German, 5, or Civics, 5.
- III. TERM—Algebra, 5, Literature, 5,
Cicero, 5,
German, 5, or Botany, 5.

FOURTH FORM.

- I. TERM—Geometry, 5, *German, 5, or French, 5,*
Vergil, 5, *or Physiology, 5,*
Cicero, 5, *or Chemistry, 5.*
- II. TERM—Geometry, 5, } Cicero, }
Vergil, 5, } Ovid, } 5,
German, 5, or Astronomy, 5, or French, 5.
- III. TERM—Physics, 5, *German, 5,*
Vergil, 5, *or French, 5,*
Solid Geometry, 5, *or Geology, 5.*

III. THE SCIENTIFIC COURSE.

FIRST FORM.

- I. TERM—Algebra, 5, History, 5,
Latin, 5, English, 5.
- II. TERM—Algebra, 5, English, 5,
Latin, 5, Drawing, 5.

- | | |
|------------------------|-------------|
| III. TERM—Geometry, 5, | History, 5, |
| Latin, 5, | English, 5. |

SECOND FORM.

- | | |
|-------------------------------|---------------------|
| I. TERM—Higher Arithmetic, 5, | Ancient History, 5, |
| Latin, 5, | Rhetoric, 5. |
| II. TERM— | |
| { Bookkeeping, | Ancient History, 5, |
| { Commercial Arithmetic, 5, | Rhetoric, 5. |
| Latin, 5, | |
| III. TERM—Algebra, 5, | Literature, 5, |
| Cæsar, 5, | Ancient History, 5. |

THIRD FORM.

- | | |
|-----------------------|----------------|
| I. TERM—Algebra, 5, | German, 5, |
| Cæsar, 5, | Elocution, 5. |
| II. TERM—Algebra, 5, | German, 5, |
| Cæsar, 5, | Literature, 5. |
| III. TERM—Algebra, 5, | German, 5, |
| Botany, 5, | Literature, 5. |

FOURTH FORM.

- | | |
|--------------------------|----------------------------------|
| I. TERM—Geometry, 5, | History of England, 5, |
| <i>Physiology</i> , 5, | German, 5, |
| or <i>Chemistry</i> , 5, | or <i>French</i> , 5. |
| II. TERM—Geometry, 5, | Civics, 5. |
| Astronomy, 5, | German, 5, or <i>French</i> , 5. |
| III. TERM—Physics, 5, | German, 5, or <i>French</i> , 5, |
| Geology, 5, | Solid Geometry, 5. |

METHODS OF INSTRUCTION.

The Preparatory Curriculum naturally falls into seven principal lines of study, viz.: English, German, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary, and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities, and methods of the various departments are explained below.

I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. This work is done in the First Form.

In the Second Form a review in the principles of English Grammar is given, and a practical application of the same, together with rhetorical structure in paragraph writing and composition.

In the Third Form the first term is devoted to the study of Elocution, and the remaining two terms take up the study of Literature. The reading and study of the masterpieces of English and American Literature are maintained by means of daily recitations. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful reading of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form and structure" of other selections.

II. THE LATIN LANGUAGE.

The Course includes four and two thirds years of Latin, embracing four books of Cæsar, six orations of Cicero, six books of Vergil, and twelve hundred lines of Ovid, besides a complete Course in Grammar and Composition.

Careful drill is given in the declensions and conjugations, in the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translations into idiomatic English. Attention is given to the important personal, historical, and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, and art of Rome. He is taught to investigate the allegorical, archæological, and mythical allusions of the *Æneid*, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

III. THE GREEK LANGUAGE.

The first two terms of the Third Form are spent in a thorough study of White's First Greek Book. In the third term Xenophon's *Anabasis* is read, and special attention is given to acquiring a vocabulary and to the forms and syntax of nouns, pronouns, and adjectives. In the first half of the Fourth Form the reading of Xenophon is continued. During the last half year Homer's *Iliad* is read, and the difference between the Homeric and Attic Forms is noted. Throughout the course, Prose Composition is frequently required for the purpose of acquiring a vocabulary and a knowledge of syntax. The course includes four books of the *Anabasis*, four books of the *Iliad*, besides the Grammar and Prose Composition.

IV. THE GERMAN LANGUAGE.

One year's study of German is required of members of the Third and Fourth Forms of the Scientific Course. The same work may be elected by the members of the corresponding form of the Latin Scientific Course instead of the science subjects of that course. In the study of German, the aim is a thorough acquaintance with declensions and conjugations; facility of pronunciation; quick recognition of words both by the eye and the ear; as extensive a vocabulary as the time will allow; and by constant practice the laying of a foundation for reading, writing, and speaking the language.

V. HISTORY.

The course in History includes a survey of the History of the United States, of England, of Greece, and of Rome. The aim is to acquaint the student with the life, the genius, the institutions, and

the achievements of the respective peoples, and their part in the wider history of mankind.

Additional courses are offered in Ancient, Mediæval, and Modern History, and extra courses in the historical readings required of applicants for examination and registration as students at law by the Supreme Court of Pennsylvania.

Civil Government is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are presented and discussed.

VI. MATHEMATICS.

Arithmetic. To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for college or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

Algebra. The Third Form course extends through one year, and includes a knowledge of the fundamental principles, Factoring, Divisors, and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals, and Quadratic Equations. Daily blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

The First Form takes up Algebra for the first two terms. The work is intended to give the pupils a knowledge of algebraic principles and to assist them in their Arithmetic. The third term is devoted to Concrete Geometry and Mechanical Drawing.

Plane and Solid Geometry. The instruction consists in daily recitations for three terms on the Theorems and Problems given in the text-book, with original demonstrations of the same propositions by the students from hints and figures given in the classroom. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

Bookkeeping. A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Bookkeeping. Careful attention is given

to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications, as an elective, by properly qualified students.

VII. SCIENCE.

Botany is taught by text-books, field exercise, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin, and preparations are used in class.

Physics. The student is grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiments, review, and repeated examination. The truth of principles is proved, except where the demonstration involves mathematics of the higher course in College.

Astronomy. Descriptive Astronomy discusses the earth's relations to the solar system, the masses, motions, and orbits of each member of it; the causes and consequences of the motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Geology. The student masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of

the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked, to produce changes are considered.

VIII. ORATORY.

Class Exercises. Members of the Fourth Form prepare and deliver one original oration each term. All other students have regular exercises in Composition and Declamation throughout the year. Public exercises are held before the faculty and students of the Academy. Visitors are cordially invited to these exercises.

In addition to the private rehearsals for the work above indicated, students in the Third Form receive daily instruction in elocution during the fall term. The course includes careful drill in the Elementary sounds, in Articulation, and in expression; in Analytical Reading, including the Bible and Hymns; and the reading of Shakspeare.

IX. SPECIAL BRANCHES.

Bible Study. The study of the Bible is pursued as a regular weekly recitation throughout the First, Second, and Third Forms, in all Courses of study. A scheme of study is arranged at the beginning of each year. It is intended that the successive schemes for the various years of the course will cover the Life of Christ, the historical portions of the Old Testament foreshadowing the Christ, and the history of the Apostolic Church.

The Study of Music may be pursued by Academic students in the School of Music.

Drawing. All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing and Penmanship without extra charge. Special individual instruction in Drawing in the Art Studio is afforded at twenty-four dollars per annum.

X. HEALTH AND PHYSICAL CULTURE.

The Tustin Gymnasium affords opportunity for physical exercise. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The Athletic Association of the Academy has been formed to encourage and regulate athletic sports. The Association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

PUBLIC EXHIBITIONS.

THIRD FORM.

The Public Exhibition in Declamation by the Third Form will take place on Saturday evening, April 17, 1909, in Bucknell Hall.

FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition in Oratory of the Fourth Form, on June 21, 1909.

Diplomas and Certificates will be conferred Tuesday, June 22, 1909.

GENERAL INFORMATION.

ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading Room. The Academy is designed to fit pupils thoroughly for College and Technical Schools, and to lay broad and solid foundations for all subsequent scholarly culture and for the successful conduct of everyday affairs.

GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study.

I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.

2. The government of the Academy, subject to such control, rests with the Principal of the Academy.

3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions, and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.

4. Each Instructor shall have charge of his classes with reference to attendance upon recitations. He shall report to the Principal cases of non-attendance, and inexcusable failure on the part of students to prepare regular lessons or special work assigned.

II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of any violation of the regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose.

2. Every violation of the laws and prudential regulations of the Academy will subject the offender to a penalty of demerits, graded according to the flagrancy and frequency of the offense.

3. When the sum of a pupil's demerits equals ten it shall be the Principal's duty to notify the parent or guardian of the offender, specifying the offense; for every additional ten demerits like notification shall be made.

4. Additional disciplinary penalties in the form of reprimand, "campus," suspension, dismissal, or expulsion, according to the necessities of the case, will follow repeated violations.

BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of the Catalogue.

The Main Building contains, besides its accommodations for other school and boarding purposes, rooms for students. The rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high; furnished with new folding, beds washstands, chairs, mirror and table.

The East Hall contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings, and contain two commodious closets and two single wire mattress beds with all necessary furniture.

ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors, and the Matron live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding house. So far as may be warranted by the deportment of the students, there will be absent from the home life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preference of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing Encyclopedias, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Rooms are provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Ancient Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The apparatus of the College also is accessible to the classes for purposes of experiment and illustration.

The College Library, numbering thirty thousand volumes, is available for all students.

SCHOOLROOM.

In order to insure favorable conditions of study, the Academy maintains a commodious and well-appointed schoolroom. The school life centers in this room. Here, except when engaged in recitations, day students prepare their work, unless excused for a

part of the time, for good cause; here, also, all the younger students of the lower forms prepare for their recitations. Advanced students and those of maturer years, who have acquired habits of independent study, are granted the privilege of preparing part of their work in their rooms, provided that they maintain high scholarship and excellent deportment.

HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only two hours. This time should be sacred to its purpose. Parents of day pupils are requested to coöperate with the school in securing attention to evening study hours, and to avoid furnishing occasions or granting excuses for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations, see the Calendar of the University.

STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings range from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose grade in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without examination.

All students who complete in a satisfactory manner any of the Courses of Study, and who have sustained irreproachable character during their school residence, shall be entitled to the diploma of the Academy.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

PRIZES.

THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize for excellence in Composition. This prize for 1908 was awarded to Arthur R. Gerhart.

THE REV. DAVID PORTER LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize to that member of the Third Form who shall excel in the Annual Exhibition of the Third Form in Declamation.

This prize for 1908 was awarded to Frank Russell Hamblin.

THE WILLIAM E. MARTIN PRIZE.

Principal Thomas offers an annual prize, named in honor of Professor William E. Martin, to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1908 was awarded to Robert Ray McCombs.

LITERARY SOCIETY.

This is an organization of students for mutual improvement in literary and oratorical exercises. It has a large and convenient hall in the Main Academy Building, where meetings are held on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises, which all students are required to attend. Devotional exercises are also held every evening, just before the evening study hour. All academic students residing on the University campus are required to attend these exercises.

Regular attendance at Sunday school and upon public worship at some church on Sunday morning, is required; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Christian Endeavor or other like Young People's Society, and the mid-week prayer-meetings, while voluntary, is strongly urged upon students.

Parents or guardians are requested to indicate to the Principal the church which they desire their sons or wards to attend.

The Academy students maintain a branch of the Young Men's Christian Association, which hold a weekly prayer-meeting on Tuesday evenings, and song and praise meeting on Sunday evenings.

EXPENSES OF ACADEMY STUDENTS.

	Per annum.
Tuition, Board, Furnished Room, Heat, Light, Care,	
Washing and Incidentals.....	\$260.00
Tuition and Incidentals to day pupils.....	75.00

A student engaging a room is required to make a deposit of ten dollars. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

All charges are payable to the Registrar of the University in advance, at the beginning of each term.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than twelve pieces per week.

Students who remain in the Academy during the holiday or spring vacation will be charged at the rate of \$5.00 per week. Table boarders will be charged the regular rate, \$3.50 per week.

Free scholarships covering tuition are provided in all the departments of the University for the children of Ministers of the Gospel *in actual service*. Tuition is rated at \$36 a year.

The expenses for Music and Printing for Exhibition and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, or the Principal, Benjamin F. Thomas, A. M.

THE INSTITUTE.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

THOMAS ALPHEUS EDWARDS, A. M.,
DEAN OF THE DEPARTMENT FOR WOMEN,
AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

* ELYSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR OF THE SCHOOL OF MUSIC.

EMMA LOUISE BUSH, A. B., PRECEPTRESS,
TEACHER OF GERMAN.

GRACE SLIFER, A. M.,
TEACHER OF LATIN AND ENGLISH.

MARGARET ELLEN KALP, A. B.,
TEACHER OF ENGLISH AND HISTORY.

EDITH SCHILLINGER,
TEACHER OF ELOCUTION AND GYMNASTICS.

PAUL GEORGE STOLZ, B. S.,
INSTRUCTOR IN MUSIC.

* Deceased.

RUTH ANGELENE BOTTORF,
TEACHER OF INSTRUMENTAL MUSIC.

MARY ELIZABETH BOYNTON,
TEACHER OF INSTRUMENTAL MUSIC.

WINIFRED GRACE ISAAC,
TEACHER OF VOCAL MUSIC.

CHARLOTTE S. ARMSTRONG,
TEACHER OF INSTRUMENTAL MUSIC.

ALICE KATHRYN LUTZ,
TEACHER OF VOCAL MUSIC.

FLORENCE CHRIST CALLAGHAN,
TEACHER OF ART.

MARTIN LINNAEUS DRUM, PH. B.,
TEACHER OF MATHEMATICS.

PHARES GROSS HESS, A. B.,
TEACHER OF SCIENCE.

HENRY TAYLOR MEYER, A. B.,
TEACHER OF ENGLISH.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR.

DIRECTORY OF THE ALUMNÆ

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Corresponding Secretary and Treasurer, MRS. DEWEY A. COBB,
3227 Race Street, Philadelphia.

The Dean of the Department for Women will esteem it a favor if any graduate who changes her residence will give notice of her new address. He will also be grateful for any information that will assist in making the directory of the graduates and former students complete.

GRADUATES, CLASS OF 1908.

NAME.	RESIDENCE.
HAZEL LIPPINCOTT BODINE,	Merchantville, N. J.
ALMA MARGARET DEITRICH,	Madisonburg
ANNA JOSEPHINE DERR,	Lewisburg
HAZEL ETTA GALLOWAY,	Lewisburg
CHARLOTTE MAY HAWK,	Tower City
MARY ANNA KLINE,	Sunbury
LAURA ELLEN MCGANN,	Lewisburg.
EDNA ANNE MILLER,	Montrose
VERNA GRACE NOLL,	Lewisburg
CAROL FRANCES SPRATT,	Clinton, Conn.
HELEN ELIZABETH STURR,	Elmer, N. J.
JESSIE THERESA YOUNG,	Lewisburg

GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
MARY EDNA DEITRICH,		Women's College
	<i>Madisonburg.</i>	
FRANCES LLOYD GROFF,		Lewisburg
	<i>Lewisburg.</i>	
HARRIET YARGER KEISER,		Lewisburg
	<i>Lewisburg.</i>	
JESSIE THERESA YOUNG,		South Seventh Street
	<i>Lewisburg.</i>	

THE SENIOR CLASS.

EMMA MINCH CLEMENT,		Women's College
	<i>Mt. Ephraim, N. J.</i>	
BESSIE NEWTON CONDUCT,		East Market Street
	<i>Trenton, N. J.</i>	
EUDORA REGINA HAMLER,		West Market Street
	<i>Lewisburg.</i>	
MYRA ALVERNA HIGH,		White Deer
	<i>White Deer.</i>	
ERNESTINE SUSANNA HYATT,		North First Street
	<i>Lewisburg.</i>	
OLIVE MARIE LONG,		Women's College
	<i>Lock Haven.</i>	
BERTHA REED PFLEEGOR,		Montandon
	<i>Montandon.</i>	
PEARL IRENE REAM,		South Fifth Street
	<i>Lewisburg.</i>	

NAME.	RESIDENCE.	ROOM.
LUCILLE SAVIDGE,	<i>Sunbury.</i>	Sunbury
KATHERINE ROSE SNYDER,	<i>Lewisburg.</i>	East Market Street
ANNETTA AMELIA STAHL,	<i>Lewisburg.</i>	West Market Street
MARGUERITE WATROUS,	<i>New York City.</i>	Women's College
BESS SELLERS WEBER,	<i>Centre Hall.</i>	Women's College
MARY GILFILLAN WEISER,	<i>Liverpool.</i>	Women's College
GRACE GETZ WOLFE,	<i>Lewisburg.</i>	North Second Street

THE FOURTH YEAR CLASS.

HELEN KING BARTOL,	<i>Lewisburg.</i>	University Avenue
LOIS MAY BROWN,	<i>Lewisburg.</i>	Lewisburg
HANNAH BARTON BUBB,	<i>Lewisburg.</i>	University Avenue
ANNA KALER DREISBACH,	<i>Lewisburg.</i>	South Third Street
ELLEN WOLFE FOCHT,	<i>Lewisburg.</i>	South Second Street

THE THIRD YEAR CLASS.

HELEN MAY BROWN,	<i>Lewisburg.</i>	Lewisburg
MIRIAM RUTH HOFFA,	<i>Lewisburg.</i>	North First Street
EVELYN REED HILLIER,	<i>Burlington, N. J.</i>	Women's College
MARY HULLEY,	<i>Lewisburg.</i>	South Fourth Street
MARY ANNA KUNKEL,	<i>Lewisburg.</i>	Lewisburg
RUTH BARBARA MOHN,	<i>Lewisburg.</i>	South Third Street
MARY EDNA STAROOK,	<i>Lewisburg.</i>	Lewisburg

THE SECOND YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
HELEN SHARPLESS CLARK,	<i>Media.</i>	Women's College
MARGARET CHRISTINE GRETZINGER,	<i>Lewisburg.</i>	South Sixth Street
MARGARET ELIZABETH GUNDY,	<i>Lewisburg.</i>	North First Street
MARGARET FAY HARTER,	<i>Loganton.</i>	Women's College
ANNA MIRIAM HERRMANN,	<i>Dushore.</i>	Women's College
MARGARET MCCLURE,	<i>Lewisburg.</i>	University Avenue
BERTHA MAY NOLL,	<i>Lewisburg.</i>	North Fourth Street
ELEANOR EMMA PROSS,	<i>Lewisburg.</i>	Market Street
RUTH ROYAL,	<i>Camden, N. J.</i>	Women's College
ISABELLE BOWMAN WOLFE,	<i>Lewisburg.</i>	North Third Street

THE FIRST YEAR CLASS.

ALICE SUSANNE JOHNSON,	<i>Lewisburg.</i>	South Third Street
NELLIE MAY PROWANT,	<i>New Columbia.</i>	New Columbia

PURSUING SELECT STUDIES

MARGARET EDITH BAKER,	<i>Milton.</i>	Milton
ALICE LOUISE CHAPPELL,	<i>Scranton.</i>	Women's College
MABEL CHRISTIAN,	<i>Bloomsburg.</i>	Women's College
MARY ETHEL CLAUSON,	<i>Cumberland, Md.</i>	Women's College
CLARA HARRIET COLLINS,	<i>Scottdale.</i>	Women's College
MARY EDNA DEITRICH,	<i>Madisonburg.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
PEARL R. DEYOE,	<i>New Haven.</i>	Women's College
ALICE MAY EVEY,	<i>State College.</i>	Women's College
MABEL ELIZABETH GRITNER,	<i>Turbotville.</i>	Turbotville
HELEN FOSTER HALFPENNY,	<i>Lewisburg.</i>	North Fourth Street
MARY HENDERSON,	<i>Uniontown.</i>	Women's College
EVA MAY HIMMELREICH,	<i>Lewisburg.</i>	South Seventh Street
ANNA PEARL HOUGHTON,	<i>Shamokin.</i>	South Fifth Street
RUTH CAROLYN HUNTER,	<i>Prospect.</i>	Women's College
MARY WINIFRED HURDER,	<i>Tamaqua.</i>	Women's College
LENA CHARLOTTE JACOBY,	<i>Sunbury.</i>	Sunbury
RENA ELIZABETH KEISER,	<i>Shamokin.</i>	Women's College
NELLE I. KOBBE,	<i>Picture Rocks.</i>	Women's College
HARRIET LOUISE LEWIS,	<i>Catawissa.</i>	Women's College
MARGARET B. MCCLINTOCK,	<i>Wilmington, Del.</i>	North Second Street
MARGARET MCCOOMBS,	<i>New Salem.</i>	Women's College
ELEANOR BELLE NIXON,	<i>Uniontown.</i>	Women's College
GRACE ELIZABETH ORWIG,	<i>Lewisburg.</i>	North Fifth Street
JESSIE M. PURSELL,	<i>Muncy.</i>	Muncy
BERTHA IRENE REED,	<i>Northumberland.</i>	Northumberland
MAUDE ELEANOR RINGLER,	<i>Mifflinburg.</i>	Mifflinburg
ETHEL MILDRED ROYAL,	<i>Camden, N. J.</i>	Women's College

NAME.	RESIDENCE.	ROOM.
PHILIPPINE RUTLER,	<i>Sunbury.</i>	Sunbury
HALLIE BELLE SEMBOWER,	<i>Uniontown,</i>	Women's College
BESSIE I. SHADE,	<i>Moorestburg.</i>	Moorestburg
MARIA AGNES SPYKER,	<i>Lewisburg.</i>	East Market Street
MARY ELIZABETH STEVENSON,	<i>Berwick,</i>	Women's College
PAULINE STRATTAN,	<i>Falls Creek.</i>	Women's College
ADA ROSALIE SWARTZ,	<i>Altoona.</i>	Women's College
LOLA MIRIAM ULRICH,	<i>Sunbury.</i>	Sunbury
HELENA WAY,	<i>Cape May Court House, N. J.</i>	Women's College
SARA MARGARETTA WAY,	<i>Port Matilda,</i>	Women's College
FLORA BELLE WEDDLE,	<i>West Newton.</i>	Women's College
DORIS ELIZABETH WHITNEY,	<i>Buffalo, N. Y.</i>	Women's College
KATHERINE MAY WILLIAMSON,	<i>Turbotville.</i>	Turbotville
DOROTHY WOLFE,	<i>Lewisburg.</i>	St. George Street

SUMMARY.

Graduate Students	4
Senior Class	15
Fourth Year Class.....	5
Third Year Class.....	7
Second Year Class.....	10
First Year Class.....	2
Pursuing Select Studies.....	41
Students in Art and Elocution not otherwise counted.....	5
Total	89

COURSES OF STUDY.

The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if upon examination they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

Credentials from Graded Schools are accepted in the studies of the First and Second Years.

Credentials are accepted for the Third and Fourth Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

I. THE LITERARY COURSE.

The Literary Course embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra with Trigonometry and Analytical Geometry as electives; in LATIN, four years; in GERMAN, two years, and a third year elective with FRENCH; in FRENCH, one year; and in ITALIAN and SPANISH, an optional course; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory, and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology, Ethics, and History of Art.

Special attention is given to History and Literature, to the former of which six and to the latter of which three terms are devoted, besides the reading of English and American authors required for admission to College.

Graduates of the Institute in the Literary Course, upon the completion of eighteen courses of additional work in the College of Liberal Arts, may receive the degree of Bachelor of Letters.

II. THE CLASSICAL COURSE.

The Classical Course embraces, in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry and Analytical Geometry; in LATIN, Grammar and Composi-

tion, Cæsar, Vergil, Cicero's Orations, Ovid, Cicero *de Senectute et de Amicitia*, Livy, and Velleius, in all, five years; in GREEK, Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Plato's Apology, Homer's Odyssey, and the Greek Testament, in all, three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical course except that scientific subjects are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

Students in the fifth year Classical or Latin Scientific course recite to the professors in the College.

Students who do not wish to pursue a course of study may elect such subjects in connection with the recitations of the regular classes as they may be qualified to pursue.

AGE REQUIREMENT FOR ADMISSION.

The required age for admission to the first-year class or to pursue select studies is twelve years, and a proportionate increase of age for admission to advanced classes.

CURRICULA.

Arabic numerals indicate the number of recitations a week
in each subject.

I. THE LITERARY COURSE.

FIRST YEAR.

- | | |
|----------------------------------------------------|--------------------------|
| I. TERM—Algebra, 5,
Latin, 5,
History, 5, | English, 4,
Bible, 1. |
| II. TERM—Algebra, 5,
Latin, 5,
Drawing, 5, | English, 4,
Bible, 1. |
| III. TERM—Geometry, 5,
Latin, 5,
History, 5, | English, 4,
Bible, 1. |

SECOND YEAR.

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| I. TERM—Higher Arithmetic, 5, \ Cæsar, Introduction, 5,
Ancient History, 5, | Rhetoric, 4,
Bible, 1. |
| II. TERM— <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> { Bookkeeping,
 Commercial Arithmetic, 5,
 Cæsar, 5, </div> | Ancient History, 5,
Literature, 4,
Bible, 1. |
| III. TERM—Physical Geography, 5,
Cæsar, 5,
Ancient History, 5, | Literature, 4,
Bible, 1. |

THIRD YEAR.

- | | |
|------------------------------------------------------------------------------------|-----------------------------|
| I. TERM—Algebra, 5,
Cæsar, 5,
German, 5, <i>or</i>
History of England, 5, | Elocution, 4,
Bible, 1. |
| II. TERM—Algebra, 5,
Cicero, 5,
German, 5, <i>or</i>
Civics, 5, | Literature, 4,
Bible, 1. |
| III. TERM—Algebra, 5,
Cicero, 5,
German, 5, <i>or</i>
Botany, 5, | Literature, 4,
Bible, 1. |

FOURTH YEAR.

- | | |
|---------------------------------------------------------------------------|-------------------------------------------------------------------|
| I. TERM—Geometry, 5,
Vergil, 5,
Cicero, 5, | German, 5, <i>or</i>
Physiology, 5, <i>or</i>
Chemistry, 5. |
| II. TERM—Geometry, 5,
Vergil, 5,
{ Cicero, }
{ Ovid, } 5, | German, 5, <i>or</i>
Astronomy, 5. |
| III. TERM—Physics, 5,
Vergil, 5, | German, 5, <i>or</i>
Geology, 5. |

SENIOR YEAR.

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| I. TERM—Psychology, 5,
English Literature, 5,
French, 5, <i>or</i>
German, 5, <i>or</i>
Solid Geometry, 5, | Bible, 1,
Composition, 1,
Elocution, 1. |
| II. TERM—English Literature, 5,
History of Art, 5,
French, 5, <i>or</i>
German, 5, <i>or</i>
Algebra, 5, | Bible, 1,
Composition, 1,
Elocution, 1,
Physical Culture, 5. |

III. TERM—	Ethics,	Bible, 1,
	American Literature,	Composition, 1,
	French, <i>or</i>	Elocution, 1.
	German, <i>or</i>	
	Trigonometry,	

II. THE CLASSICAL COURSE.

FIRST YEAR.

I. TERM—	Algebra, 5,	English, 4,
	Latin, 5,	Bible, 1.
	History, 5,	
II. TERM—	Algebra, 5,	English, 4,
	Latin, 5,	Bible, 1.
	Drawing, 5,	
III. TERM—	Geometry, 5,	English, 4,
	Latin, 5,	Bible, 1.
	History, 5,	

SECOND YEAR.

I. TERM—	Higher Arithmetic, 5,	Rhetoric, 4,
	Cæsar, Introduction, 5,	Bible, 1.
	Ancient History, 5,	
II. TERM—		
	{ Bookkeeping,	Ancient History, 5,
	{ Commercial Arithmetic, 5,	Literature, 4,
	Cæsar, 5,	Bible, 1.
III. TERM—	Physical Geography, 5,	Literature, 4,
	Cæsar, 5,	Bible, 1.
	Ancient History, 5,	

THIRD YEAR.

I. TERM—	Algebra, 5,	Elocution, 4,
	Cæsar, 5,	Bible, 1.
	Greek, 5,	

- | | |
|-----------------------|----------------|
| II. TERM—Algebra, 5, | Literature, 4, |
| Cicero, 5, | Bible, 1. |
| Greek, 5, | |
| III. TERM—Algebra, 5, | Literature, 4, |
| Cicero, 5, | Bible, 1. |
| Greek, Anabasis, 5, | |

FOURTH YEAR.

- | | |
|-----------------------|---------------------|
| I. TERM—Geometry, 5, | Cicero, 5, |
| Vergil, 5, | Greek, Anabasis, 5. |
| II. TERM—Geometry, 5, | { Cicero, } 5, |
| Vergil, 5, | |
| | Iliad, 5. |
| III. TERM—Physics, 5, | Iliad, 5, |
| Vergil, 5, | Anabasis, 5. |

SENIOR YEAR.

- | | |
|--------------------------------|----------------------|
| I. TERM—Solid Geometry, 5, | Bible, 1, |
| Cicero de Senectute, 5, | Composition, 1, |
| { Odyssey, | Elocution, 1. |
| { Greek Prose Compositions, 5, | |
| II. TERM—Algebra, 5, | Bible, 1, |
| Livy, 5, | Composition, 1, |
| { Lysias, | Elocution, 1, |
| { Greek Testament, 5, | Physical Culture, 5. |
| III. TERM—Trigonometry, 5, | Bible, 1, |
| Velleius and Pliny, 5, | Composition, 1, |
| { Plato, | Elocution, 1. |
| { Greek Testament, 5, | |

III. THE LATIN SCIENTIFIC COURSE.**FIRST YEAR.**

- | | |
|---------------------|-------------|
| I. TERM—Algebra, 5, | English, 4, |
| Latin, 5, | Bible, 1. |
| History, 5, | |

- II. TERM—Algebra, 5, English, 4,
 Latin, 5, Bible, 1.
 Drawing, 5,
- III. TERM—Geometry, 5, English, 4,
 Latin, 5, Bible, 1.
 History, 5,

SECOND YEAR.

- I. TERM—Higher Arithmetic, 5, Rhetoric, 4,
 Cæsar, Introduction, 5, Bible, 1.
 Ancient History, 5,
- II. TERM—
 { Bookkeeping, Ancient History, 5,
 { Commercial Arithmetic, 5, Literature, 4,
 Cæsar, 5, Bible, 1.
- III. TERM—Physical Geography, 5, Literature, 4,
 Cæsar, 5, Bible, 1.
 Ancient History, 5,

THIRD YEAR.

- I. TERM—Algebra, 5, Elocution, 4,
 Cæsar, 5, Bible, 1.
 German, 5, *or*
 History of England, 5,
- II. TERM—Algebra, 5, Literature, 4,
 Cicero, 5, Bible, 1.
 German, 5, *or*
 Civics, 5,
- III. TERM—Algebra, 5, Literature, 4,
 Cicero, 5, Bible, 1.
 German, 5, *or*
 Botany, 5,

FOURTH YEAR.

- I. TERM—Geometry, 5, German, 5, *or*
 Vergil, 5, Physiology, 5, *or*
 Cicero, 5, Chemistry, 5.

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|--------------------------------------------------------------------|---------------------------------------------------------------------|
| II. TERM—Geometry, 5,
Vergil, 5,
{ Cicero, }
{ Ovid, } 5, | German, 5, <i>or</i>
Astronomy, 5. |
| III. TERM—Physics, 5,
Vergil, 5, | German, 5, <i>or</i>
Geology, 5, <i>or</i>
Solid Geometry, 5. |

SENIOR YEAR.

- | | |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| I. TERM—Solid Geometry, 5,
Cicero de Senectute, 5,
German, 5, <i>or</i>
French, 5, | Bible, 1,
Composition, 1,
Elocution, 1. |
| II. TERM—Algebra, 5,
Livy, 5,
German, 5, <i>or</i>
French, 5, | Bible, 1,
Composition, 1,
Elocution, 1,
Physical Culture, 5. |
| III. TERM—Trigonometry, 5,
Velleius and Pliny, 5,
German, 5, <i>or</i>
French, 5, | Bible, 1,
Composition, 1,
Elocution, 1. |

METHODS OF INSTRUCTION.

I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the Course in Ethics is to make the instruction as practical as possible. Theses on problems in Ethics are required of each student taking the subject, in addition to recitations from text-books.

II. LITERATURE AND ART.

LITERATURE is taught by topical outlines, the elaboration of which depends upon a sympathetic study of the masterpieces in connection with the lives and times of the writers. The subject is so presented that a vital experience results rather than an empty form of knowledge. The object of the course is to cultivate and ennoble the emotions, to stimulate the imagination, and to reinforce the will with strong and exalted motives.

THE HISTORY OF ART is offered in the Senior Year, Literary Course. The aim of the course is to give a general knowledge of the development of art and lead to an acquaintance with individual artists and their work. Some attention is given to the theories concerning the origin of the art-impulse itself, and the law of the mental evolution which has governed the history of art.

III. HISTORY.

History. Six terms are devoted to this study. The course embraces General History, the History of the United States, of England, of Greece, and of Rome. Efforts are made to show the learner that History is not mere facts in chronological order, but a record of the development of civilization.

Civil Government. The origin and growth of our institutions, the functions of the various departments of the National, State,

and local governments, the political history of the people, the interpretation and construction of the Constitution, are discussed.

IV. THE ENGLISH LANGUAGE.

English Grammar. The aim is to train the pupils to speak and write the English language with accuracy and force.

Rhetoric is taught as a practical aid to English Composition. Daily exercises in composition are required.

English Composition is required throughout the course. Classes in Composition meet weekly for general criticism and the assignment of work. One essay is required from each student monthly, and an exercise in rapid and concise writing is required weekly.

V. THE LATIN LANGUAGE.

Paradigms of Declension and Conjugation with the Principles of Syntax, are introduced gradually, after many illustrations. English sentences are translated into Latin, readiness in Latin Composition and a correct style being thus acquired.

The following courses are offered: 1. Latin Grammar and Lessons; 2. Eutropius; 3. Cæsar, Gallie War; 4. Vergil, *Æneid*; 5. Cicero, Orations; 6. Ovid; 7. Cicero, *de Senectute*, and Livy; 8. Livy, Books XXI and XXII; 9. Velleius and Pliny.

VI. THE GREEK LANGUAGE.

The first half of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's *Anabasis*. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh her knowledge of Attic Greek, and may not find her transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course: 1. Greek Lessons; 2. Xenophon's *Anabasis*; 3.

Homer's Iliad; 4. Lysias' Orations; 5. Homer's Odyssey; 6. Plato's Apology; 7. Greek New Testament.

VII. MODERN LANGUAGE.

1. **French, Italian, and Spanish.** The modern languages are taught by comparing them with the mother tongue of the pupil, if there be any relation between them. If there is none, they are compared with the Latin and Greek languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the language, and not the language from the grammar. Dictation exercises are given from Whitney's Practical French.

As far as practical only French is spoken in the classroom. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the modern languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

2. **German.** In the study of German the aim is to get knowledge of the language in an all-round way. This is accomplished not alone through the study of grammar and the translation of German into English, but by daily practice in conversation, the committing to memory of poems and idioms, and through an acquaintance with biography and the different phases of German life. As little English as practicable is used in the classroom. Throughout the course there is constant sight reading, translation at hearing, and translation from English into German.

The reading of the second year includes the best German authors studied in connection with Keller's History of German Literature.

VIII. MATHEMATICS.

Arithmetic. Two objects are considered in teaching the subject; first, to give the student a practical knowledge of all ordinary business problems and calculations; second, to develop her ability to think logically and rapidly. The memorizing of

rules and mechanical processes is not required, but independent thought, logical analysis and neatness, clearness and accuracy in all written work are demanded. A drill in Mental Arithmetic is combined with the required work of the text-book.

Elements of Algebra. Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the applications of arithmetical processes to symbols of general value is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variations, and Series.

Geometry. The course includes Plane and Solid Geometry. Besides the demonstrations of Theorems given in the text-book, original demonstrations and the solution of problems are required.

Higher Algebra. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions, and the Theory of Equations.

Trigonometry. The course includes Plane and Spherical Trigonometry. Time is given to the numerical illustrations of principles for the purpose of making sure that the meaning and use of formulæ demonstrated and learned are thoroughly understood.

Analytical Geometry. The student is taught the elementary properties of the right line and the conic sections. The course is intended to give a clear conception of the methods of Cartesian Analysis, rather than an extensive knowledge of its results.

IX. SCIENCE.

Physics. The student is thoroughly grounded in the elements of mechanics and physics. The historical beginnings of each subject, and subsequent developments, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics. The apparatus of the College is available for class use.

Astronomy. Descriptive Astronomy discusses the earth's relation to the solar system; the masses, motions, and orbits of each member; the causes and consequences of the motions of the earth; general boundaries of the constellation of the Zodiac and Northern

Heavens; the accepted theories of comets, meteors, and nebulae. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Physical Geography lays a broad foundation for subsequent work in all sciences. Special attention is given to the physical features of the United States. Drawings, photographs, colored and relief maps, and specimens from the Museum and field work aid to make the subject clear.

Geology. The student is required to master the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

Botany is taught by text-book and field work. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. Lectures explaining special forms of vegetable growth, and the flora of this country, complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. The subject is illustrated by the use of a manikin, charts, and preparations.

Descriptive Chemistry is taught by text-books, lectures, and experiments. The object of the course is to give the student a general knowledge of the common elements, their sources, uses, compounds, and behavior toward other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place.

PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium is furnished with Indian clubs, dumb bells, wands, rings, hoops, guns, wall pulleys, parallel bars, etc., and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to develop grace and strength. The Institute Campus of six acres furnishes facilities for exercises. Lawn Tennis and other outdoor games are encouraged, and exercise in the open air is required.

ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music, and refined surroundings, as well as direct instruction in Literature, Music, and Art. Special instruction in Music and Art is given in the schools devoted to those subjects.

SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music, and Art and receptions in charge of the pupils add variety to student life. No effort is spared to give the pupils the advantages of a cultured home. The purpose is to develop the social life of the Institution within itself. Students are not permitted, during term-time, to visit in neighboring towns. The number of social functions during the term is limited, and the consent of the Dean must be obtained for each function at least one month before it is to occur.

RELIGIOUS TRAINING.

The Institute is distinctly Christian in its influence. Morning and evening Chapel in the Hall of the Institute building is attended by all students in the Institute courses, special students, and women pursuing studies in the School of Music. College women living in the Institute attend evening Chapel.

Attendance upon Sabbath school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several classes for Scripture study.

The Young Women's Christian Association, a voluntary society open to the officers and students of the Institute, meets weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes, are in charge of this Association.

SPECIAL BRANCHES.

1. Italian and Spanish may be taken up as optional studies. All optional studies must be pursued in connection with the regular classes.
2. Bible instruction is given once a week throughout the entire course.
3. Essays are required of all students each month, and themes each week.
4. Two declamations are required of each student during each term.
5. Exercises in either Elocution or Reading are required once a week of all classes.

PUBLIC EXERCISES.

THE EXERCISES OF THE GRADUATING CLASS.

The Commencement Exercises of the Institute are held in the College Commencement Hall on Tuesday afternoon of Commencement week.

THE EXERCISES OF THE FOURTH YEAR CLASS.

The exercises of the Fourth Year Class, a combined musical and literary entertainment, are held in the Chapel of the Institute on the last Saturday evening in the month of April.

THE CONTEST IN ELOCUTION.

A contest in Elocution for the prize in that subject, open to all the members of the Institute, takes place in Bucknell Hall on the second Saturday evening in the month of May.

ALUMNÆ SOCIETIES.

The Alumnæ Association holds its anniversary on Monday afternoon of Commencement week.

The Lewisburg Alumnæ Club meets at the Institute on the second Tuesday of each month during term-time.

The Philadelphia Alumnæ Club is composed of graduates living in and near that city.

STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute an association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnæ and friends of the Institute. The money is loaned to beneficiaries, who obligate themselves to return it, *without interest*, as soon after their graduation as they may be able.

But for the help of this Association, some of the best of our graduates would have been deprived of the training which has fitted them for the positions they now fill as teachers, authors, missionaries, and pastors' helpers.

During the last twenty years fifty-two young ladies received aid. More than one half of these have returned the loan in full.

The annual meeting for the election of officers is held in January.

The payment of one hundred dollars constitutes the donor a Life Member of the Association; five dollars annually, an Active Member.

Contributions should be sent to the Treasurer, Mrs. John T. Judd, Lewisburg, Pa. Any information will be given by the President, Mrs. Katherine B. Larison, Lewisburg, Pa., or Mrs. Calvin A. Hare, Corresponding Secretary, Lewisburg, Pa.

DEPARTMENT OF ELOCUTION.

MISS EDITH SCHILLINGER.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought. Special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals afford opportunity for platform work. Bible reading and study of Shakspeare have places in the course. Special courses are offered to students who wish to take private lessons in elocution. Particular attention is given to curing persons of stammering and other defects in speech.

SPECIAL STUDENTS IN ELOCUTION.

NAME.	RESIDENCE,
JOSEPHINE BROWN,	Allenwood
HANNAH BARTON BUBB,	Lewisburg
MILDRED BLACKWELL CATHERS,	Flemington, N. J.
EMMA MINCH CLEMENT,	Mt. Ephraim, N. J.
CLARA HARRIET COLLINS,	Scottdale
FRANK GARFIELD DAVIS,	Warsaw
EUDORA REGINA HAMLER,	Lewisburg
JOSEPHINE ADELAIDE HAWKINS,	Uniontown
EDITH HARPEL,	Mt. Carmel
EMMA KEISER,	Mt. Carmel
RENA ELIZABETH KEISER,	Shamokin
MARY LEONARD,	Hazelton
OLIVE MARIA LONG,	Lock Haven
KATHERINE EVA OLDT,	Lewisburg
ETHEL MILDRED ROYAL,	Camden, N. J.
HALLIE BELLE SEMBOWER,	Uniontown
IDA MABEL STOUT,	Williamsport
ELIZABETH STAGE,	Clearfield
NELLIE STEVENS,	Sunbury
HELENA WAY,	Cape May Court House, N. J.
MARGUERITE WATROUS,	New York City
BESS SELLERS WEBER,	Centre Hall

Students in Elocution, 22.

THE ART DEPARTMENT.

MISS FLORENCE CHRIST CALLAGHAN.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this Department, in a special studio, which provides such adjustments for admission of light, and unencumbered wall surface as to render it adapted for the execution and display of art productions.

For such students as desire opportunity for work preparatory to professional study, and to those who wish to fit themselves to give systematic instruction in drawing, the following course is provided:

First Year. Drawing in Pencil, Charcoal, and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of Perspective, the Laws of Proportion, and the Relations of Light and Shade.

Second Year. Drawings from the Antique in Coal, Crayon, Sepia, or Oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies and Still Life.

Third Year. Composition, Color in Landscape, Pen and Ink Drawing, and Painting in Color from Nature and from Life.

On the successful completion of this entire course, a certificate of proficiency will be awarded.

Students who do not desire the certificate course, and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods—China Painting, Tapestry, Dyeing, and Applied Design in other mediums and materials.

Charges for instruction in Art are as follows:

	Per Annum.
Drawing	\$24.00
Crayoning	33.00
Painting in Oil, Water Colors, Pastel, or on	
China	60.00
	Per Lesson.
Special individual instruction in Painting.....	\$1.00

All bills must be paid to the Registrar of the University, within the first ten days of each term.

Freehand Drawing is a part of the required work of the school without extra charge.

ART EXHIBIT.

On Saturday, Monday, and Tuesday of Commencement week, a display of art products by the pupils of the School of Art is made in the Studio. At this time a committee of Art students receives and entertains all those who visit the Studio.

STUDENTS IN ART.

NAME.	RESIDENCE.
PEARL R. DEYOE,	New Haven
NORA ELIZABETH DODSON,	Hazelton
ELLEN WOLFE FOCHT,	Lewisburg
MARY HENDERSON,	Uniontown
LOUIS E. JONES,	Bellefonte
EMILY ANGELINE LANE,	Lanes' Mills
HARRIET LOUISE LEWIS,	Catawissa
ELSIE OWENS,	Lewisburg
BERTHA IRENE RHOADS,	Sunbury
MYRTLE HARGRAVES WALKINSHAW,	Greensburg
HELENA WAY,	Dushore
IDA KATHERINE WILLIAMS,	Reynoldsville
DOROTHY WOLFE,	Lewisburg

Students in Art, 13.

GENERAL INFORMATION.

ADVANTAGES.

The Bucknell Institute offers to young women superior educational advantages. Its location in a University town assures an atmosphere of study and the benefit of numerous literary exercises, lectures, and addresses. The students in the Institute have the use of the Library and apparatus of the Institute, and also of the College Astronomical Observatory, Chemical Laboratory, Museum and Library, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

During the year 1905 about forty thousand dollars was expended in enlarging and improving the women's buildings.

ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Women's College, Institute, and School of Music is vested in the President of the University.

2. The government of the Institute, subject to such control, rests with the Dean.

3. Young women, whether attending the College, Institute, or School of Music, are subject to the rules and regulations governing young women attending the Women's College.

RULES.

The laws governing the Women's College, are enacted by the Board of Trustees and a copy is given to each student when she enters the Institution.

Any officer of the Institute becoming cognizant of violation of regulations by any pupil shall report the same to the Dean, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall be reported to the President of the University; and if, in the judgment of the President of the University and the Dean, the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

Violations of the regulations of the Women's College or infraction of the laws of morality are punished by private reprimand, deprivation of privileges, or private withdrawal from the Institution.

Summary punishment may be inflicted whenever the interests of the Institution demand it.

PRIZES.

I. BUCKNELL PRIZES.

The following prizes were founded by William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1908 the First Prize of twenty-four dollars was awarded to Verna Grace Noll, and the Second Prize of sixteen dollars to Hazel Lippincott Bodine.

3. A Third Senior Prize to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades of studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the Institute.

For the year 1908 this prize of twenty-five dollars was awarded to Hazel Lippincott Bodine.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1908 these prizes were awarded as follows: Emma Minch Clement received the First Prize of twenty dollars; Ernestine Susanna Hyatt the Second Prize of fifteen dollars.

The fund consists of \$2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay Prizes will be drawn from the following works:

For 1909 Shakspeare's Macbeth, Scott's Marmion, Tennyson's Idylls of the King, Lamb's Essays of Elia.

II. THE ELOCUTION PRIZE.

A prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1908 the prize was divided between Miss Ethel Mildred Royal and Arvilla Hauck.

EXPENSES OF INSTITUTE STUDENTS.

I. Boarding Students. The regular charge for Boarding Students is \$260.00 per annum; the other expenses, spending money, books, and clothing, will vary with the individual student.

An additional charge will be made when one student occupies a double room alone in the Main Building. Extra charge will also be made for front corner rooms in the West Wing.

Students are charged extra for the washing of dresses, and for the washing of more than twelve pieces per week.

For the rooms in the Bucknell Cottage and in New Cottage there is an extra charge, depending on the location.

Students from a distance will save inconvenience by applying for a room before the term opens. A deposit of ten dollars is required when a room is chosen. This amount is credited upon the regular term bills. Should a student for good reason be unable to return, the deposit will be refunded, provided notice is sent to the Registrar not less than four weeks before the opening of the term for which the room is engaged.

Students will be charged for damage done to furniture or to the room they occupy.

II. Day Students. The charges for Day Students amount to \$75.00 per annum.

III. Extra Studies. The charges for Elocution, Drawing and Painting, and Music will be found under those titles.

All bills must be paid within the first ten days of each term.

Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term; and no deductions will be made, except in the charge of board, in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examination and on anniversary occasions, are paid by the class or classes which incur the expenses.

The fee for Graduation and Diploma is \$5.00

Free scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service*.

For information respecting the Institute, address the Dean of the Department for Women, Thomas A. Edwards, A. M., or the President of the University.

BUCKNELL SCHOOL OF MUSIC.

THOMAS ALPHEUS EDWARDS, A. M.,
DEAN.

* ELYSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR.

RUTH ANGELENE BOTTORF,
PIPE ORGAN, PIANO, VIRGIL CLAVIER.

MARY ELIZABETH BOYNTON,
PIANO, VIRGIL CLAVIER.

WINIFRED GRACE ISAAC,
VOCAL.

PAUL GEORGE STOLZ,
HARMONY AND VOCAL MUSIC.

ALICE KATHRYN LUTZ,
ASSISTANT IN VOCAL MUSIC.

CHARLOTTE S. ARMSTRONG,
VIOLIN AND PIANO.

* Deceased.

GRADUATES, 1908.

NAME.	COURSE.	RESIDENCE.
BERTHA MAY BROWN,	<i>Piano and Harmony.</i>	Lewisburg
HARRIET CONNOT BURROWS,	<i>Piano, Voice and Harmony.</i>	Sunbury
HAZEL MIRIAM CRAIG,	<i>Piano and Harmony.</i>	Philadelphia
MARY EDNA DEITRICH,	<i>Piano and Harmony.</i>	Madisonburg
CHARLOTTE MAY HAWK,	<i>Piano and Harmony.</i>	Tower City
COIT ROSCOE HOECHST,	<i>Viola.</i>	East Berlin
HARRIET YARGER KEISER,	<i>Piano and Harmony.</i>	Lewisburg
DAVID WALTER MOORE,	<i>Voice and Harmony.</i>	Milton
ELIZABETH BUDD MULFORD,	<i>Piano and Harmony.</i>	Bridgeton, N. J.
WILLIAM EDWIN PARSONS,	<i>Voice and Harmony.</i>	Montgomery
CLARA JANE PAWLING,	<i>Piano and Harmony.</i>	West Milton
EDNA ALICE SEAMAN,	<i>Voice and Harmony.</i>	Allentown
LAURA MAUD SHULTZ,	<i>Piano and Harmony.</i>	Sunbury
MARY ELIZABETH SLEAR,	<i>Piano and Harmony.</i>	Sunbury
ETHEL ELIZABETH STRASSER,	<i>Piano and Harmony.</i>	Muncy
HELEN ELIZABETH STURR,	<i>Pipe Organ and Harmony.</i>	Elmer, N. J.
MARY ELLEN WALLER,	<i>Piano and Harmony.</i>	Baltimore, Md.
HARRIET LAVINIA WILSON,	<i>Piano and Harmony.</i>	Frankford

NAMES OF STUDENTS

NAME.	COURSE.	RESIDENCE.
EDNA IRENE ANGSTADT,	<i>Piano.</i>	Lewisburg
JACOB HENRY AUSLANDER,	<i>Mandolin.</i>	Uniontown
KATHERINE ETHEL BAILEY,	<i>Piano, Voice and Harmony.</i>	Wellsboro
MARGARET EDITH BAKER,	<i>Piano and Harmony.</i>	Milton
HORACE RICHARDS BARNES,	<i>Piano and Harmony.</i>	Norristown
WILLIAM ANDREW BARTOL,	<i>Violin and Piano.</i>	Lewisburg
GEORGE T. BENDER,	<i>Piano.</i>	Lewisburg
RUTH HOLDEN BERGSTRESSER,	<i>Piano and Harmony.</i>	Milton
HARRIET KREMER BOWER,	<i>Piano.</i>	Lewisburg
WALTER BURNETTE BRINKER,	<i>Piano.</i>	Mt Pleasant
ALBERTA LILLIAN BRONSON,	<i>Piano and Harmony.</i>	Girardville
PEARL SMITH BURPEE,	<i>Piano.</i>	Lewisburg
THEORA CAMPBELL,	<i>Voice.</i>	Lewisburg
ALICE LOUISE CHAPPELL,	<i>Violin and Harmony.</i>	Scranton
MARGARET CHAPPELL,	<i>Piano and Harmony.</i>	Scranton
MABEL CHRISTIAN,	<i>Piano and Harmony.</i>	Bloomsburg
JOHN WATSON CLARK,	<i>Violin.</i>	Glen Campbell
HELEN SHARPLESS CLARK,	<i>Piano and Voice.</i>	Media
MARY ETHEL CLAUSON,	<i>Violin.</i>	Cumberland, Md.

NAME.	COURSE.	RESIDENCE.
HELEN DITTING CLIBER,	<i>Pipe Organ and Harmony.</i>	Hollidaysburg
CLARA HARRIET COLLINS,	<i>Piano, Voice and Harmony.</i>	Scottdale
HAZEL MIRIAM CRAIG,	<i>Pipe Organ.</i>	Philadelphia
MARY EDNA DEITRICH,	<i>Teacher's Course in Piano.</i>	Madisonburg
PEARL R. DEYOE,	<i>Piano and Harmony.</i>	New Haven
ALICE MAY EVEY,	<i>Piano and Harmony.</i>	State College
JEANETTE FUNK,	<i>Voice.</i>	Milton
LOIS K. GEMMILL,	<i>Piano and Voice.</i>	Allenwood
FRANK KEMP GIBSON,	<i>Piano.</i>	Gillette, Wyoming
MRS. D. W. GLOVER,	<i>Pipe Organ.</i>	Mifflinburg
JOHN WILLIAM GRANDFIELD,	<i>Piano.</i>	Clarksboro, N. J.
MARGARET CHRISTINE GRETZINGER,	<i>Piano.</i>	Lewisburg
MABEL ELIZABETH GRIPNER,	<i>Piano and Harmony.</i>	Turbotville
FRANCES LLOYD GROFF,	<i>Piano and Harmony.</i>	Lewisburg
MAX GROSSMAN,	<i>Piano.</i>	Mt. Carmel
CARRIE MAY GRUGAN,	<i>Piano.</i>	West Milton
ANNA GUTELIUS,	<i>Pipe Organ.</i>	Mifflinburg
MARGARET FAY HARTER,	<i>Piano.</i>	Loganton
PAUL C. HARTER,	<i>Piano.</i>	Loganton
MARY HENDERSON,	<i>Piano and Harmony.</i>	Uniontown
ANNA MIRIAM HERRMANN,	<i>Piano.</i>	DuShore

NAME.	COURSE.	RESIDENCE.
MYRA ALVERNA HIGH,	<i>Voice and Harmony.</i>	White Deer
LEON HOUGHTON,	<i>Cornet and Harmony.</i>	Lewisburg
ANNA PEARL HOUGHTON,	<i>Piano and Harmony.</i>	Shamokin
RUTH CAROLYN HUNTER,	<i>Piano, Voice and Harmony.</i>	Prospect
MARY WINIFRED HURDER,	<i>Piano and Harmony.</i>	Tamaqua
LENA CHARLOTTE JACOBY,	<i>Voice and Harmony.</i>	Sunbury
ANNA ISABELLE JENKINS,	<i>Piano.</i>	Milton
NELLIE A. JOHNSON,	<i>Piano.</i>	Lewisburg
MABEL ELIZABETH JOHNSON,	<i>Piano and Harmony.</i>	Mt. Carmel
LEWIS E. JONES,	<i>Violin.</i>	Bellefonte
HARRIET YARGER KEISER,	<i>Piano.</i>	Lewisburg
NELLE I. KOBBE,	<i>Piano, Voice and Harmony.</i>	Picture Rocks
MARY ANNA KUNKLE,	<i>Piano.</i>	Lewisburg
EDWARD A. LATHAM,	<i>Voice.</i>	Bellefonte
HARRIET LOUISE LEWIS,	<i>Piano.</i>	Catawissa
LEAH ELIZABETH LINDIG,	<i>Piano.</i>	Lewisburg
MARIE LINCOLN,	<i>Piano.</i>	Mifflinburg
FANNIE D. LOGAN,	<i>Piano.</i>	Sunbury
OLIVE MARIE LONG,	<i>Piano.</i>	Lock Haven
LULU VIOLET LONG,	<i>Piano.</i>	Shippensburg
MARGARET B. MCCLINTOCK,	<i>Piano and Voice.</i>	Wilmington, N. J.

NAME.	COURSE.	RESIDENCE.
MARGARET MCCOOMBS,		New Salem
	<i>Piano, Voice and Harmony.</i>	
MARY LOUISE MARSH,		Lewisburg
	<i>Piano.</i>	
ELIZABETH BRITTON MEEK,		Allenwood
	<i>Piano.</i>	
JANET STEELE MENCH,		Mifflinburg
	<i>Pipe Organ and Harmony.</i>	
OLIVE TAYLOR MILLER,		Watsonstown
	<i>Piano and Harmony.</i>	
ELEANOR BELLE NIXON,		Uniontown
	<i>Piano, Pipe Organ and Harmony.</i>	
MARY LENA OTTO,		Sunbury
	<i>Piano and Harmony.</i>	
GRACE ELIZABETH ORWIG,		Lewisburg
	<i>Piano and Harmony.</i>	
JEANETTE OWENS.		Lewisburg
	<i>Piano.</i>	
EDWARD POETH,		Lewisburg
	<i>Cornet and Harmony.</i>	
ELEANOR EMMA PROSS,		Lewisburg
	<i>Piano and Voice.</i>	
JESSIE M. PURSELL,		Muncy
	<i>Piano, Pipe Organ and Harmony.</i>	
MARTHA ELLEN RANCK,		New Columbia
	<i>Piano.</i>	
BERTHA IRENE REED,		Northumberland
	<i>Piano and Harmony.</i>	
MAUD ELEANOR RINGLER,		Mifflinburg
	<i>Piano, Pipe Organ and Harmony.</i>	
LOUISE ROBINSON,		Milton
	<i>Violin.</i>	
RUTH ROYAL,		Camden, N. J.
	<i>Piano and Pipe Organ.</i>	
ETHEL MILDRED ROYAL,		Camden, N. J.
	<i>Piano and Harmony.</i>	
KATHERINE MARIE RYAN,		Asbury Park, N. J.
	<i>Voice.</i>	
ANNA SANDERS,		Vicksburg
	<i>Voice.</i>	
LULU SEILER,		Shamokin
	<i>Piano, Pipe Organ and Harmony.</i>	

NAME.	COURSE.	RESIDENCE.
HALLIE BELLE SEMBOWER,	<i>Piano, Pipe Organ and Harmony.</i>	Uniontown
ELIZABETH STAGE,	<i>Piano and Harmony.</i>	Clearfield
ANNETTA AMELIA STAHL,	<i>Piano and Harmony.</i>	Lewisburg
ELIZABETH STEPHENS,	<i>Piano.</i>	Lewisburg
MARY ELIZABETH STEVENSON,	<i>Piano and Harmony.</i>	Berwick
SARA ELEANOR STOUT,	<i>Piano.</i>	Milton
PAULINE STRATTAN,	<i>Violin and Harmony.</i>	Falls Creek
ADA ROSALIE SWARTZ,	<i>Voice and Harmony.</i>	Altoona
LOLA MIRIAM ULRICH,	<i>Piano.</i>	Penn Hall
HELENA WAY,	Cape May Court House, N. J. <i>Piano and Harmony.</i>	
SARA MARGARETTA WAY,	<i>Piano and Harmony.</i>	Port Matilda
FLORA BELLE WEDDLE,	<i>Piano, Pipe Organ and Harmony.</i>	West Newton
MARY GILFILLAN WEISER,	<i>Piano.</i>	Liverpool
WINIFRED WERKHEISER,	<i>Piano.</i>	West Milton
IDA KATHERINE WILLIAMS,	<i>Piano and Harmony.</i>	Reynoldsville
DAVID CHARLES WILLIAMS,	<i>Pipe Organ.</i>	Scranton
KATHERINE MAY WILLIAMSON,	<i>Piano.</i>	Turbotville
DOROTHY WOLFE,	<i>Piano and Harmony.</i>	Lewisburg
HENRY C. WOLFE,	<i>Piano.</i>	Lewisburg
JESSIE THERESA YOUNG,	<i>Voice and Harmony.</i>	Lewisburg

SUMMARY.

Piano	78
Pipe Organ	13
Voice	18
Harmony—History of Music.....	47
Violin, Viola, Violoncello, Double Bass, Mandolin.....	8
Cornet	2
<hr/>	
Total Lessons	166
Total Pupils	102

COURSES OF STUDY.

The School of Music is under the general supervision of the Dean of the Department of Women, but has its own corps of instructors, each a specialist in his line. The courses are designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of instruments from the best makers is provided for practice.

INSTRUMENTAL MUSIC.

COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *études*, designed to unite with purely technical drill the requirements of artistic style and expression.

PIANO.

FIRST YEAR.

Musical Exercises and Gymnastics to prepare the hands for playing; Gurlitt, *Technic and Melody*, Book I; Kohler, *Practical Method*; Lebert and Stark, *Instruction Book*, Part I; Loeschorn, Op. 84 and 65; Kohler, Op. 157; Duvernoy *School of Mechanism*, Op. 120; *Etudes* by Biehl, Lemoine, LeCouppéy, Bertini and Czerny; introductory technical work; Sonatines, Kuhlau, Clementi, Schytte; pieces by Behr, Bohm, Lange, Lichner and others.

SECOND YEAR.

Heller, *Studies*, Op. 45, 46 and 47; Loeschorn, Op. 66; Czerny, Op. 299; Berens, Op. 61; Easier Mozart, Haydn, Beethoven Sonatas; Little Preludes by Bach; Bach Inventions, Scales, Arpeggios and other technical work continued; Salon pieces by Bendel, Kullak, Merkel, Nevin and other composers; preparatory octave and chord work.

THIRD YEAR.

Czerny, Op. 740; Cramer, 50 Studies; Clementi Gradus ad Parnassum; Moscheles, Op. 70; Bach Suites, Handel Suites, Scarlatti pieces, Beethoven Sonatas; introductory Chopin work; compositions by Grieg, Godard, MacDowell, Moszkowski and others; continued octave and chord work.

FOURTH YEAR.

Bach Preludes and Fugues; Italian Concerto: Chromatic Fantasy and Fugue; Kullak Octave Studies; Selected Chopin Etudes; Liszt Studies; Beethoven Sonatas, Op. 53 and 57; Other compositions by Chopin, Liszt, Schumann, and selected works by Tausig, Moszkowski, Saint-Saens, Brahms and Rubinstein.

The outline is necessarily quite elastic and will adjust itself to the individual ability, requirements and purposes of each student.

COURSE FOR PIPE ORGAN.

This course is based upon:

Dudley Buck's Pedal Studies, and upon the works of Rink, Batiste, Lefébre-Wely, Guilmant, and others.

COURSE FOR THE VIOLIN.

This course is based upon:

The methods of Wohlfhast, Shubert and others for elementary students; the first part of De Beriot's School; Thirty-six Studies, Kayser; De Beriot's Second and Third Positions; Mazas Etudes Speciales; Herrmann's One Hundred Studies; Violin School, Oride Musin; Bowing Studies, Casorti; Forty Studies, Kreutzer; Thirty-six Etudes, Fiorvilla. Pieces and solos by the best writers for the instrument are used throughout the course to develop style, phrasing, etc. Sonatas by Beethoven, Gads, Grieg and others, and concertos of Rode and Viotti are required for graduation.

COURSE FOR THE VIOLONCELLO.

Instruction for this instrument is based upon:

Method Pratique pour le Violoncello, par S. Lee; studies by Piatti and Romberg.

COURSE FOR THE VIOLA.

Bruni's Methods and Studies, by Campagnoli.

COURSE FOR CONTREBASSO (DOUBLE BASS).

Bottesini's Method.

VOICE CULTURE.

COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness, and durability, thorough drills are afforded in such technical exercises as:

Lamperti's and Vannuccini's Italian Methods, Vocalises of Sieber, Concone, Tütgen, Vaccai, Bonaldi, Bordogni, Marchesi, and Ponafka; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias and Solos from the Oratorios.

Careful instruction and drill are given in sight-singing; and all students seeking to complete the course in Voice Culture are expected to acquire reasonable proficiency in this branch of the art of music.

COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included in the other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are: Bussler's Harmonic Exercises, Homer Norris's Practical Harmony, Richter's Counterpoint, and Reicha's Course of Musical Composition, or equivalents.

THE ORCHESTRA.

CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart and Haydn.

RECITALS.

Frequent recitals in the presence of the faculty and students of the School of Music and their friends are held to accustom students to playing in public, and for mutual improvement.

On the Friday evening prior to Commencement week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency is held in Bucknell Hall the Saturday afternoon before commencement. At this time each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

TUITION.

Extra tuition is charged for instruction in Music, as follows:

Per Annum.

Vocal Music	\$60 00
Music on Piano or Organ.....	60 00
Harmony, in Class.....	18 00
Harmony, in private lessons.....	60 00
Use of Instruments for practice.....	10 00
Guitar, in Class.....	15 00

Per Lesson.

Special individual instruction in Music..... \$1 00

No reduction is made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

Payment strictly in advance at the beginning of each term.

RESIDENCE OF MUSIC PUPILS.

Pupils in music reside in the Women's College and are under the care of the Dean of the Department for Women. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature.

The regular charges for pupils in music, residing in the Institute, including one literary subject per term, are \$215 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

GRADUATION IN MUSIC.

Students who complete any of the Courses in Music and pass the examination, receive a certificate of proficiency. Students will not be taken as Seniors in Music until they have passed an examination before a committee consisting of members of the faculty and other appointed judges. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the spring term, and a final examination before Commencement week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.

AVIRAGNET PRIZES.

Professor Elysée Aviragnet established and maintained four prizes as follows:

1. (a) One prize for excellence in Instrumental, Vocal Music and Harmony; (b) one for excellence in Science of Music. For 1908 the Music prize was awarded to Miss Ethel Elizabeth Strasser.

2. One prize for excellence in French and one for excellence in Spanish. For 1908 the French prize was awarded to Miss Mary Ellen Waller. The Spanish prize was divided between Miss Ethel Watkins and Miss Helen D. Cliber.

GENERAL REGULATIONS.

Young ladies attending upon the School of Music are subject to the administration and other regulations enacted by the Board of Trustees for the government of students in the Women's College. These rules are given on page 189 of this Catalogue. Students of Music are also entitled to all the privileges of the Women's College.

For information respecting the School of Music, address the President of the University, or the Dean, Thomas Alpheus Edwards.

UNIVERSITY CALENDAR.

1909

Second Term Ends,.....Thursday, March 25

SPRING RECESS.

Third Term Begins,.....Tuesday, March 30

Sermon before the Christian Association,.....Sunday, April 4

Declamation of the Third Form, Academy,....Saturday, April 17

Exercises of the Fourth-Year Class, Institute,

Saturday, April 24

Contest in Elocution, Institute,.....Saturday, May 8

Exhibition of the Junior Class, College,Friday, May 14

Examinations,.....Tuesday to Friday, June 15 to 18

Exhibition, School of Music,.....Friday, June 18

Junior Debate,.....Saturday, June 19

Baccalaureate Sermon,Sunday, June 20

Sermon before the Education Society,.....Sunday, June 20

Examinations for Admission to College,.....Monday, June 21

Meeting of the Alumnae of the Institute,.....Monday, June 21

Annual Meeting of the Trustees,.....Tuesday, June 22

Annual Meeting of the Alumni,.....Tuesday, June 22

Graduation of the Fourth Form, Academy,....Tuesday, June 22

Graduating Exercises of the Institute,.....Tuesday, June 22

Oration before the Alumni,.....Tuesday, June 22

ANNUAL COMMENCEMENT, the 59th,....Wednesday, June 23

SUMMER VACATION.

Fall Examinations for Admission to College,

Wednesday, September 15

First Term Begins,.....Thursday, September 16

Reception by Christian Association,.....Saturday, September 18

Introductory Address,Monday, September 20

Matriculation,Monday, November 22

Thanksgiving (recess of three days),....Thursday, November 25

First Term Ends,.....Thursday, December 16

1910

Second Term Begins,.....Tuesday, January 4

Second Term Ends,.....Thursday, March 24

Third Term Begins,.....Tuesday, March 29

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